GENERAL NOTE:

THE INTENT OF THE PLUMBING DEMOLITION DRAWINGS IS TO REMOVE ALL EXISTING PLUMBING FIXTURES, WASTE AND SEWER PIPING, VENT PIPING AND ALL CULINARY WATER PIPING WHETHER IT IS SHOWN OR NOT. THE MAIN RESULT SHALL BE A PLUMBING FREE BUILDING.

SHEET NOTES:

- 1 EXISTING CULINARY HOT AND COLD WATER PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES THROUGH OUT THE BUILDING SHALL BE REMOVED. FIELD VERIFY LOCATIONS OF ALL CULINARY WATER PIPING.
- 2 EXISTING WASTE AND VENT PIPING, CLEANOUTS, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED. FIELD VERIFY LOCATIONS OF ALL PIPING.
- (3) EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, VALVES, AND ACCESSORIES SHALL BE REMOVED. FIELD VERIFY LOCATIONS OF ALL EXISTING ITEMS NOTED.

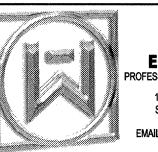
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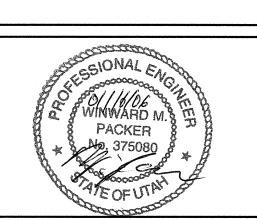
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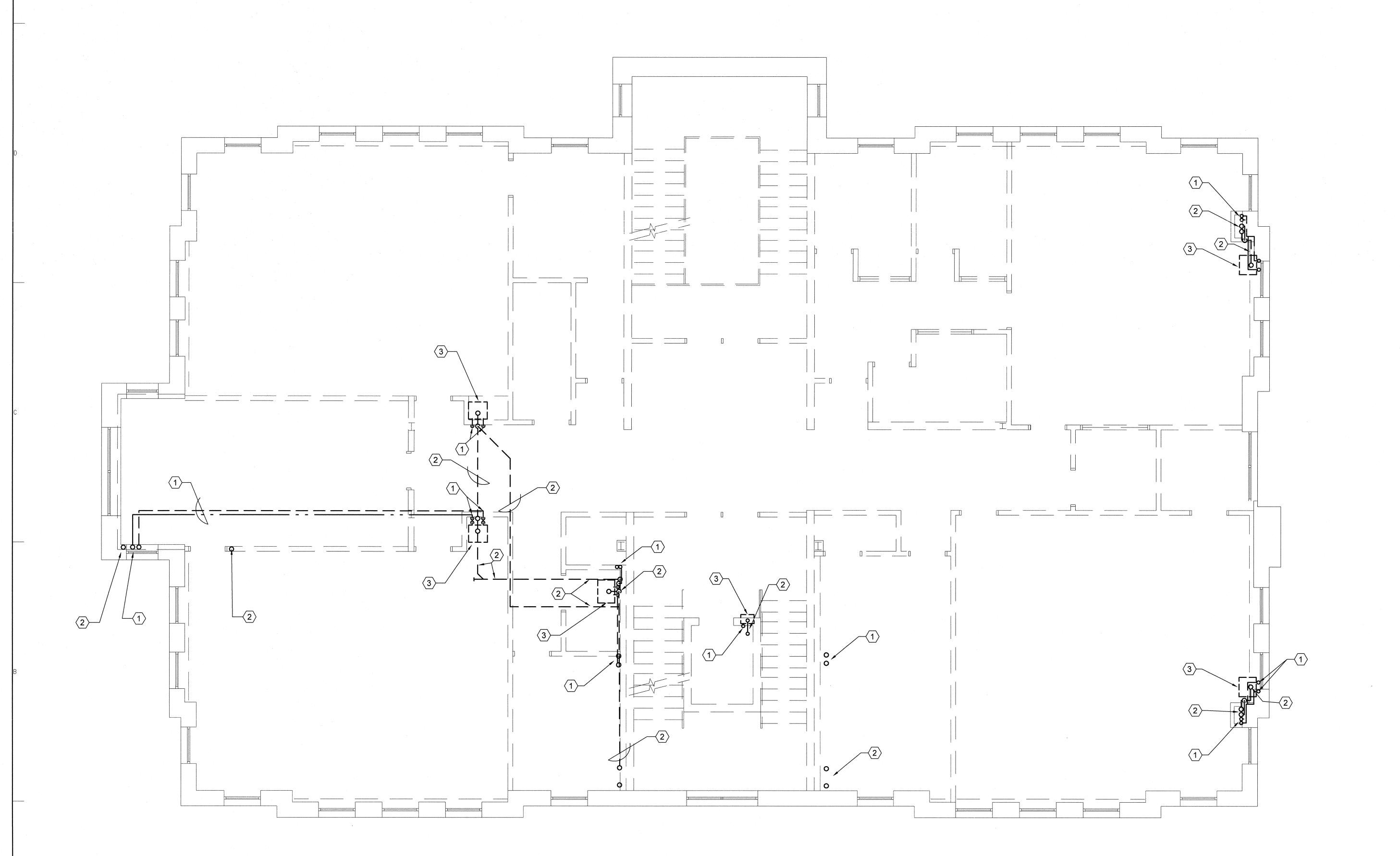
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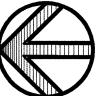
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DFCM PROJECT NO.: 03234730
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PLUMBING DEMO. 2ND FLOOR PLAN

PD102





GENERAL NOTE:

THE INTENT OF THE DRAWINGS IS TO REMOVE ALL EXISTING PLUMBING IE. FIXTURES, PIPING, VALVES, VENTS, ETC.

SHEET NOTES:

- 1 EXISTING CULINARY HOT AND COLD WATER PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES THROUGH OUT THE BUILDING SHALL BE REMOVED. FIELD VERIFY LOCATIONS OF ALL CULINARY WATER PIPING.
- 2 EXISTING SEWER WASTE AND VENT PIPING, CLEANOUTS, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED. FIELD VERIFY EXISTING LOCATIONS OF ALL PIPING.
- (3) EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, VALVES, AND ACCESSORIES SHALL BE REMOVED. FIELD VERIFY LOCATIONS.

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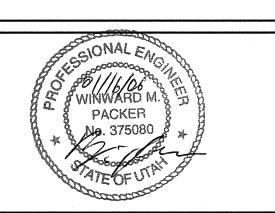
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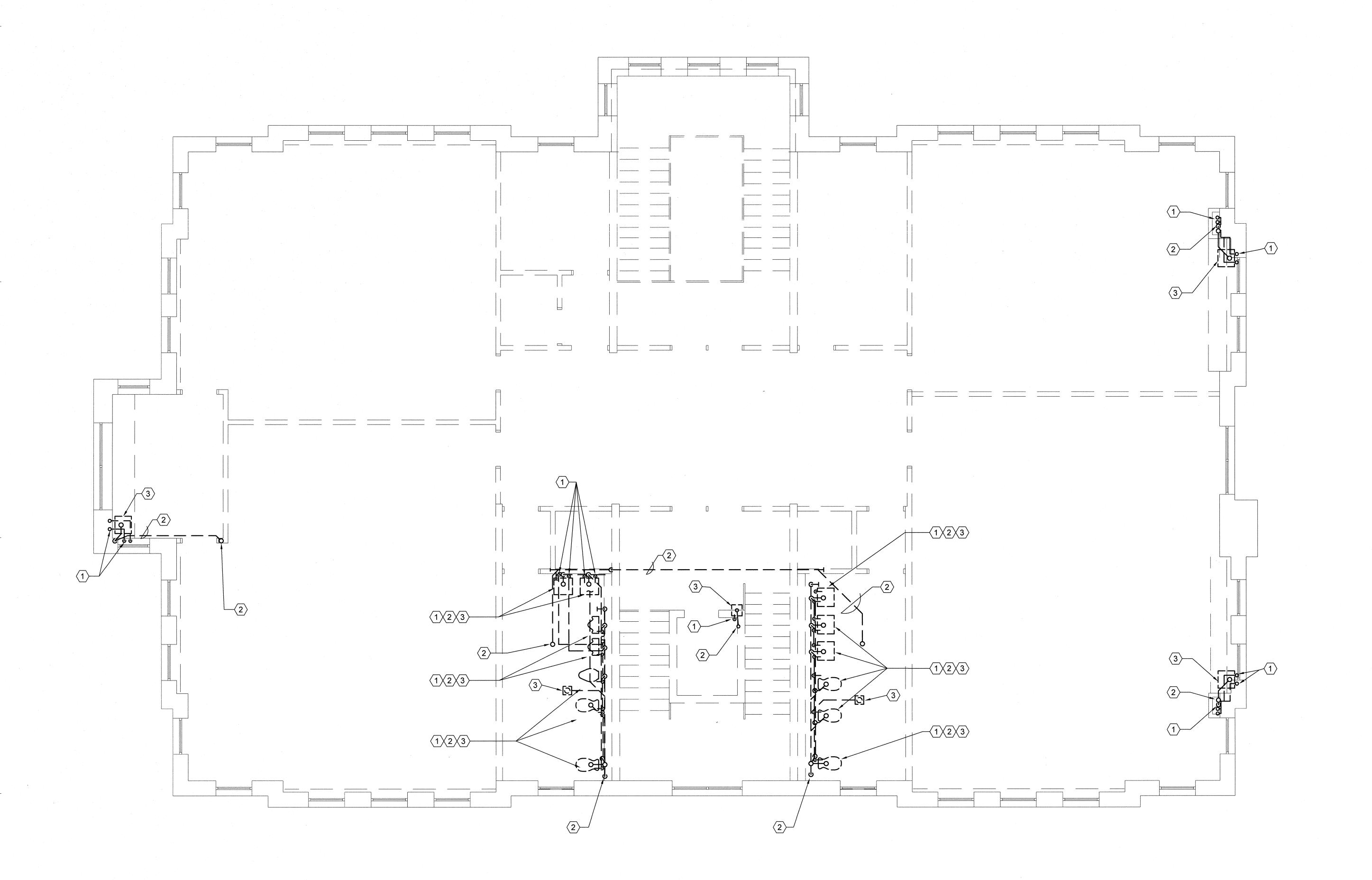
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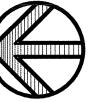
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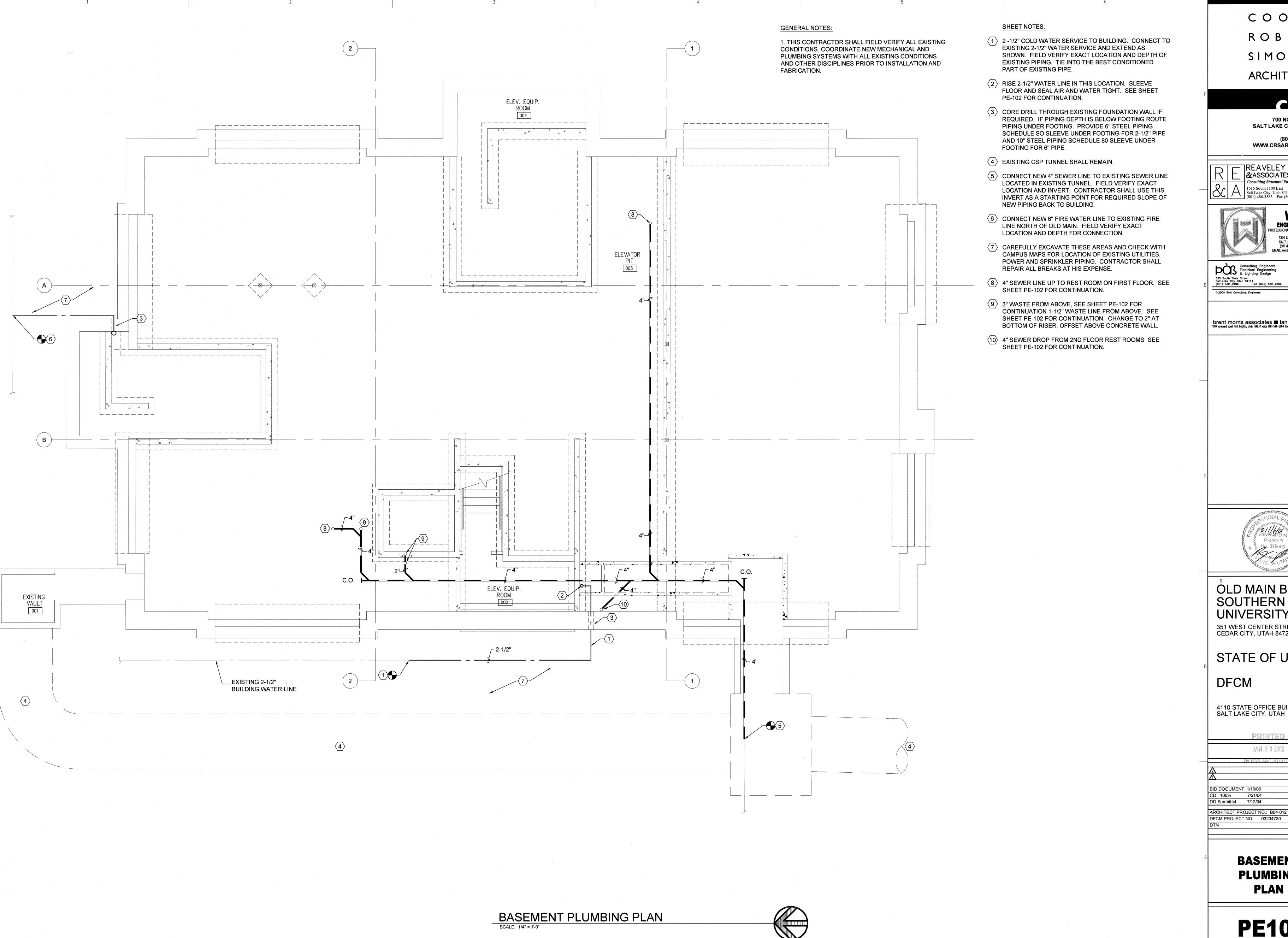
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PLUMBING DEMO. 3RD FLOOR PLAN

PD103







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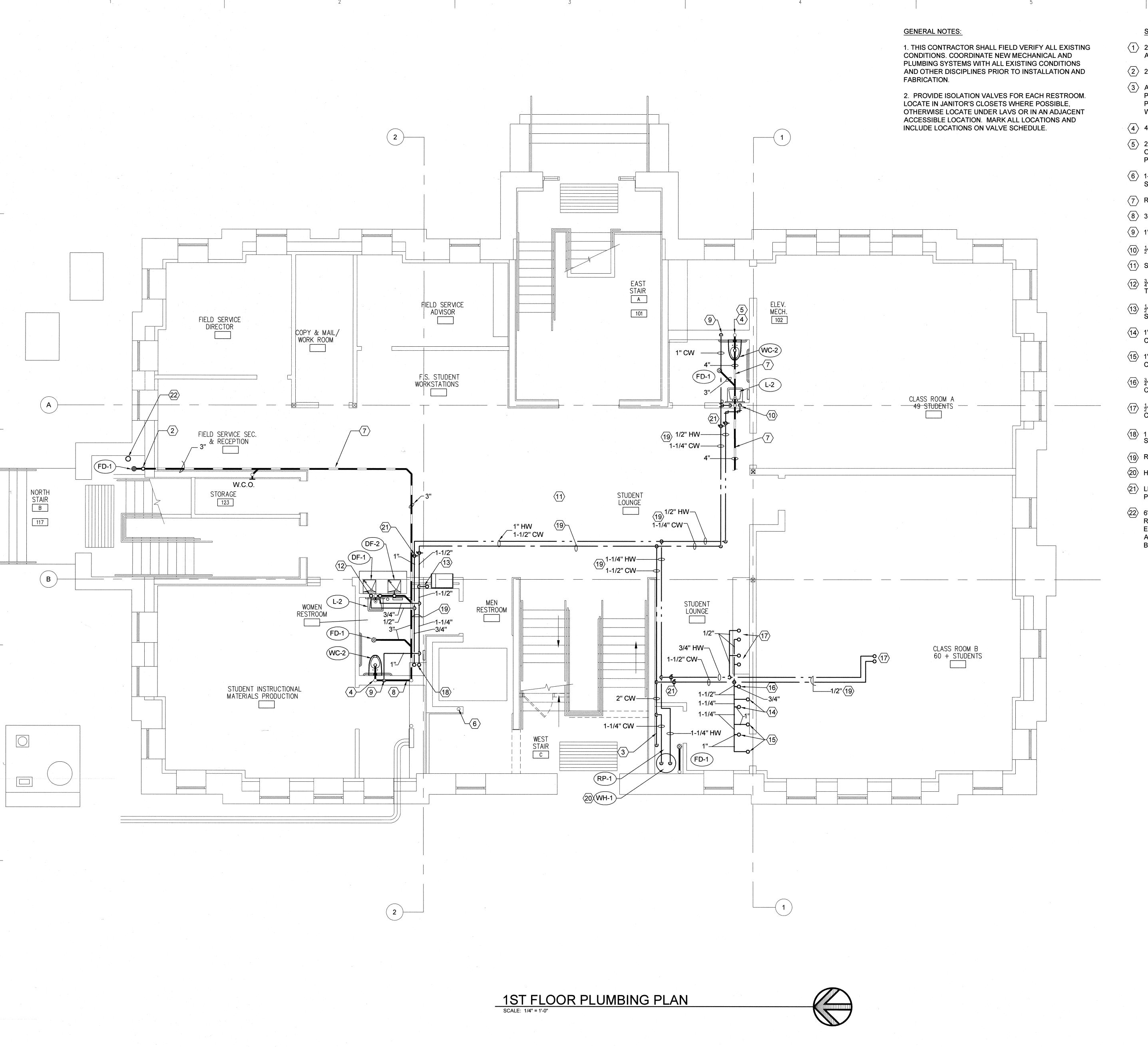
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BASEMENT PLUMBING PLAN



- SHEET NOTES:
- 2" WASTE FROM ABOVE. SEE SHEET PE-104 FOR SOURCE AND PE-901 FOR ISOMETRIC.
- $\langle 2 \rangle$ 2" VENT RISER. SEE SHEET PE-103 FOR CONTINUATION.
- (3) APPROXIMATE LOCATION OF NEW WATER HEADER AND PRESSURE REDUCING STATION. SEE DETAIL SHEET PE-501. COORDINATE LOCATION WITH HOT AND CHILLED WATER RISERS SEE SHEET ME-102
- 4 4" WASTE DOWN. SEE SHEET PE-101 FOR CONTINUATION.
- (5) 2-1/2" VENT RISER. SEE SECOND LEVEL PLUMBING PLAN ON SHEET PE-103 FOR CONTINUATION. SEE SHEET
- (6) 1-1/2" WASTE FROM ABOVE. SEE SHEET PE-104 FOR SOURCE AND PE-101 FOR CONTINUATION.
- (7) ROUTE IN BASEMENT. SEE SHEET PE-101
- (8) 3" WASTE DOWN. SEE SHEET PE-101 FOR CONTINUATION.
- 9 1" CW DOWN TO WC-2
- 10 $\frac{1}{2}$ " HW AND CW DOWN TO LAVATORY L-2
- (11) SEE SHEET PE-902 FOR HW AND CW ISOMETRIC.
- 12 $\frac{3}{4}$ " CW AND $\frac{1}{2}$ " HW DOWN TO DF-1, DF-2 AND L-2. $\frac{1}{2}$ " CW UP TO DF-1'S ON 2ND AND 3RD FLOORS.
- $\frac{1}{2}$ " CW RISER TO DF-1 ON 2ND AND 34D FLOORS. SEE SHEET PE-103 FOR CONTINUATION.
- 1" CW UP TO WC-1. SEE SHEET PE-103 FOR CONTINUATION.
- (15) 1" CW UP TO WC-2. SEE SHEET PE-103 FOR CONTINUATION.
- $\frac{3}{4}$ " CW UP TO URINAL. SEE SHEET PE-103 FOR CONTINUATION.
- $\frac{1}{2}$ " CW AND HW UP TO L-1'S. SEE SHEET PE-103 FOR CONTINUATION.
- 18 1 $\frac{1}{4}$ " CW AND $\frac{3}{4}$ " HW RISER TO 3RD FLOOR FIXTURES. SEE SHEET PE-103 FOR CONTINUATION.
- (19) ROUTE IN 1ST FLOOR CEILING SPACE.
- 20 HOT WATER HEATER. SEE DETAIL SHEET PE-501
- 21 LINE SIZE BALL VALVES. PROVIDE CEILING ACCESS PANEL.
- (22) 6" FIRE RISER FROM BASEMENT. SEE SHEET PE-101. RISE TO 1ST FLOOR AND 2ND FLOOR CEILINGS FOR ENTRANCES INTO BUILDING. COORDINATE LOCATION OF ALL FIRE LINES WITH MECHANICAL AND PLUMBING BEFORE INSTALLATION.

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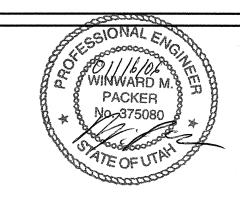


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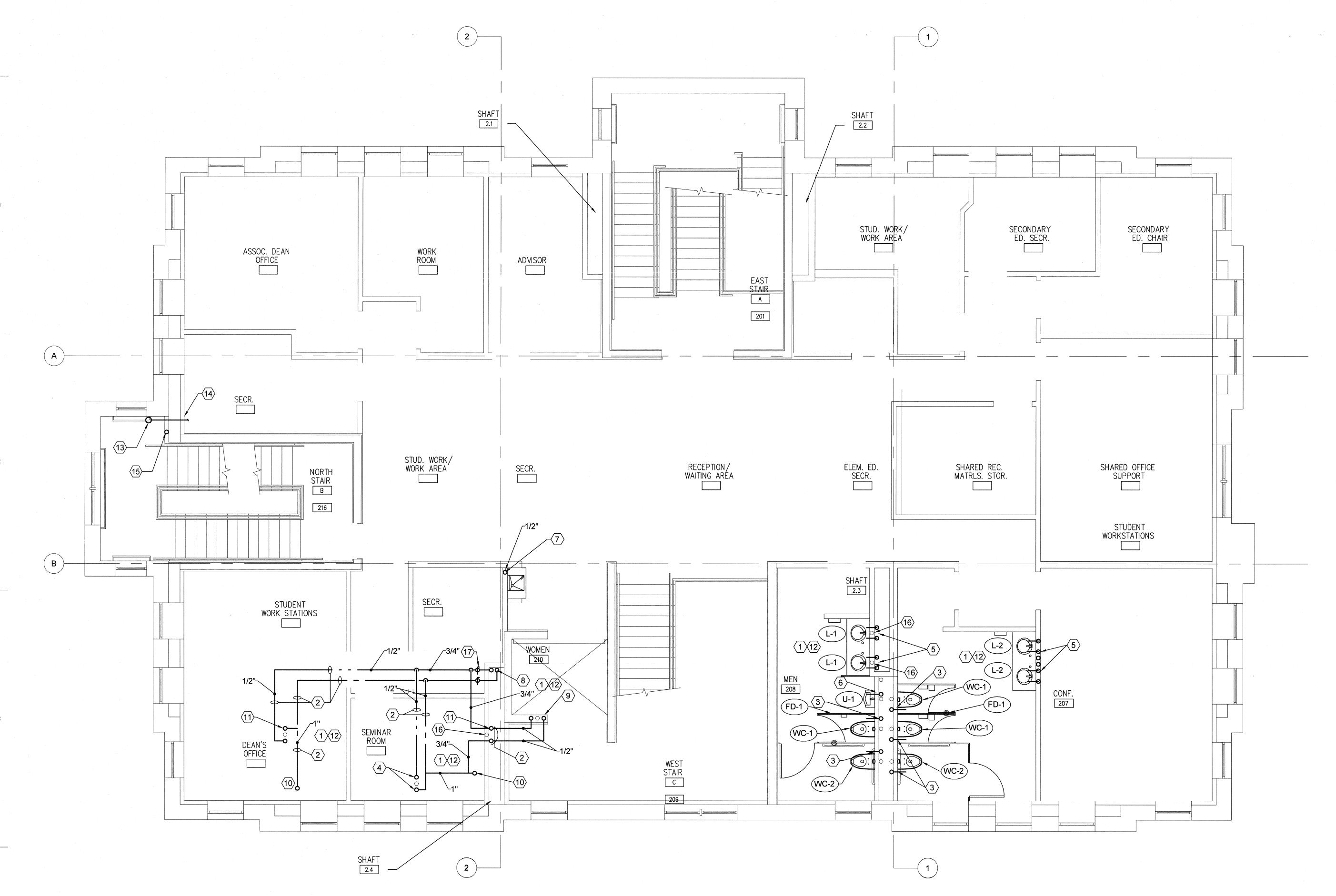
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> **1ST FLOOR PLUMBING PLAN**

GENERAL NOTES:

1. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. COORDINATE NEW MECHANICAL AND PLUMBING SYSTEMS WITH ALL EXISTING CONDITIONS AND OTHER DISCIPLINES PRIOR TO INSTALLATION AND FABRICATION.

2. PROVIDE ISOLATION VALVES FOR EACH RESTROOM. LOCATE IN JANITOR'S CLOSETS WHERE POSSIBLE, OTHERWISE LOCATE UNDER LAVS OR IN AN ADJACENT ACCESSIBLE LOCATION. MARK ALL LOCATIONS AND INCLUDE LOCATIONS ON VALVE SCHEDULE.



SHEET NOTES:

CONTINUATION.

- 1 SEE PIPING ISOMETRIC SHEET PE-901 FOR SEWER AND VENT AND PE-902 FOR CW AND HW.
- 2 ROUTE CW AND HW IN 2ND FLOOR CEILING SPACE. COORDINATE WITH DUCTWORK, PIPING, FIRE PIPING,
- 3 1" CW FROM BELOW TO WATER CLOSETS, THIS FLOOR. SEE SHEET PE-102 FOR SOURCE.
- 4 1/2" CW AND 1/2" HW UP TO SERVICE SINK ON 3RD FLOOR. SEE SHEET PE-102 FOR SOURCE AND PE-104 FOR
- 5 1/2" CW AND 1/2" HW FROM BELOW TO LAVATORY, THIS FLOOR. SEE SHEET PE-102 FOR SOURCE.
- 6 3/4" CW FROM BELOW TO URINAL THIS FLOOR. SEE SHEET PE-102 FOR SOURCE.
- $\langle 7 \rangle$ 1/2" CW FROM BELOW TO DF-1 THIS FLOOR AND 3RD FLOOR ABOVE. SEE SHEETS PE-102 FOR SOURCE AND PE-104 FOR CONTINUATION.
- (8) 1 $\frac{1}{4}$ " CW AND 1" HW IN SHAFT FROM BELOW. SEE SHEET PE-102 FOR SOURCE.
- 9 $\frac{1}{2}$ " CW AND $\frac{1}{2}$ " HW TO CATERING LAB ON 3RD FLOOR. SEE SHEET PE-104 FOR CONTINUATION.
- (10) 1" CW TO WATER CLOSET ON 3RD FLOOR. SEE SHEET PE-104 FOR CONTINUATION.
- 11 $\frac{1}{2}$ CW AND $\frac{1}{2}$ HW TO LAVATORIES ON 3RD FLOOR. SEE SHEET PR-104 FOR CONTINUATION.
- (12) SEE SHEET PE-401 FOR SEWER, WASTE AND VENT PIPING FOR THESE AREAS.
- fire riser see sheet pe-101 for source and sheet pe-104 for continuation.
- THIRD FLOORS.

(14) SLEEVE THRU EXISTING WALL FOR SERVICE TO 2ND AND

- (15) 2" VENT RISER. SEE SHEET PE-104 FOR CONTINUATION.
- (16) WASTE DROPS SHALL BE IN WALLS IN THESE LOCATIONS DUE TO DUCTWORK IN SHAFT
- 27 ZONE BALL VALVES LINE SIZE. PROVIDE CEILING ACCESS

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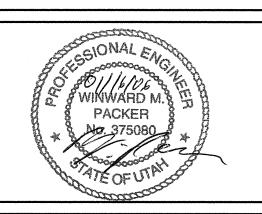




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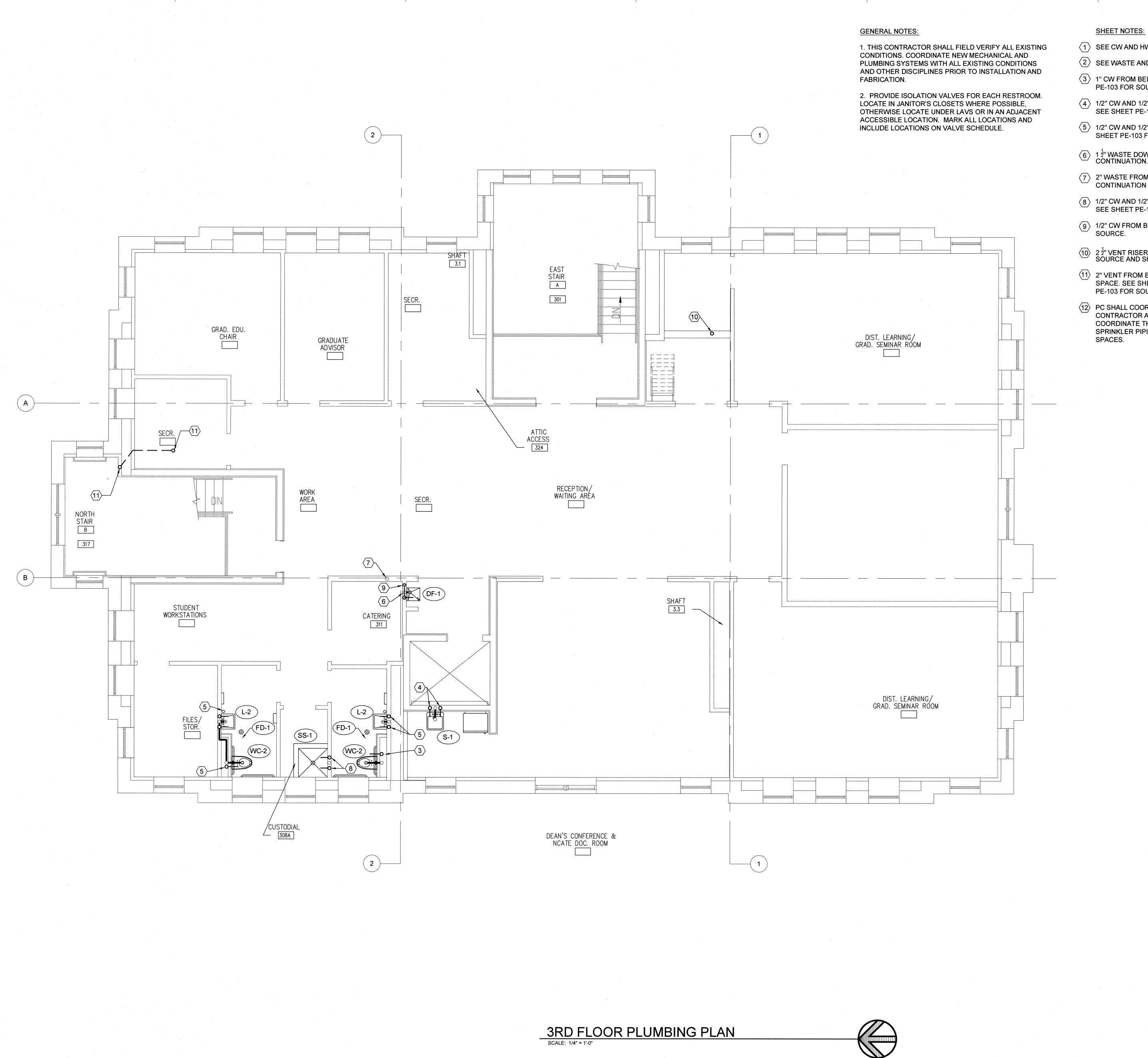
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> **2ND FLOOR PLUMBING PLAN**





- (1) SEE CW AND HW PIPING ISOMETRICS SHEET PE-902.
- $\langle 2 \rangle$ SEE WASTE AND VENT ISOMETRIC SHEET PE-P01
- 3 1" CW FROM BELOW TO WATER CLOSET. SEE SHEET PE-103 FOR SOURCE.
- 4 1/2" CW AND 1/2" HW FROM BELOW TO CATERING SINK. SEE SHEET PE-103 FOR SOURCE.
- 5 1/2" CW AND 1/2" HW FROM BELOW TO LAVATORY. SEE SHEET PE-103 FOR SOURCE.
- 6 1 $\frac{1}{2}$ " WASTE DOWN. SEE SHEET PE-103 FOR CONTINUATION.
- 7 2" WASTE FROM ABOVE (FD-2). SEE SHEET PE-103 FOR CONTINUATION AND PE-105 FOR SOURCE.
- (8) 1/2" CW AND 1/2" HW FROM BELOW TO SERVICE SINK. SEE SHEET PE-103 FOR SOURCE.
- 9 1/2" CW FROM BELOW TO DF-1. SEE SHEET PE-103 FOR
- $2\frac{1}{2}$ " VENT RISER FROM BELOW. SEE SHEET PE-102 FOR SOURCE AND SHEET PE-105 FOR CONTINUATION.
- 2" VENT FROM BELOW. ROUTE IN 3RD FLOOR CEILING SPACE. SEE SHEET PE-105 FOR CONTINUATION AND PE-103 FOR SOURCE.
- 12 PC SHALL COORDINATE WITH SHEET METAL. CONTRACTOR AND FIRE PROTECTION CONTRACTOR TO COORDINATE THE LOCATIONS OF PIPING, DUCTS AND SPRINKLER PIPING LOCATED IN SHAFTS AND CEILING

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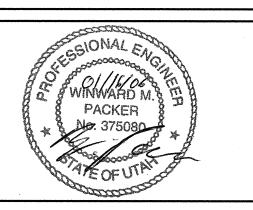


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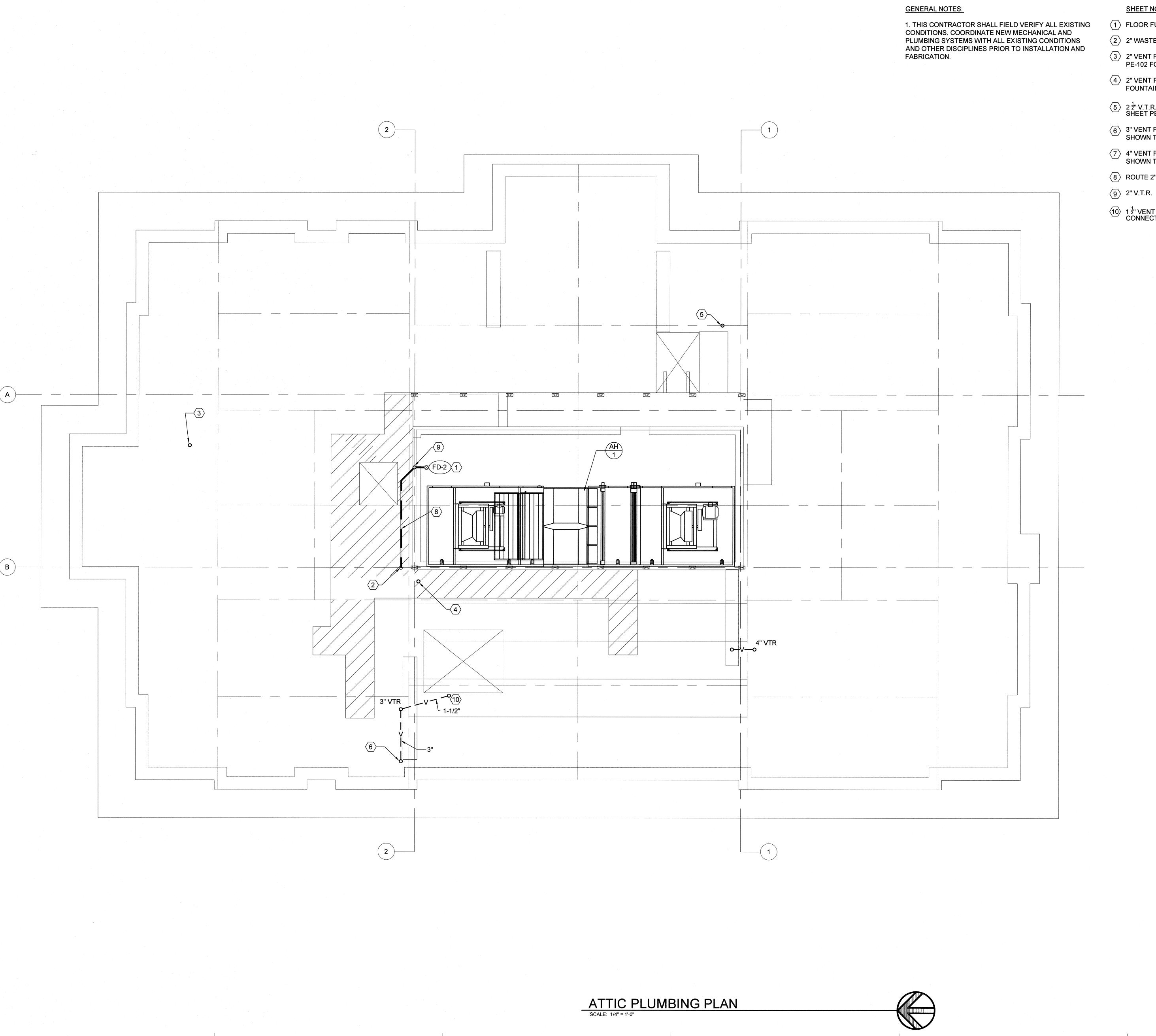
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3RD FLOOR PLUMBING PLAN

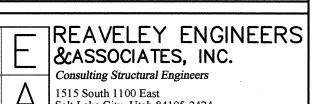


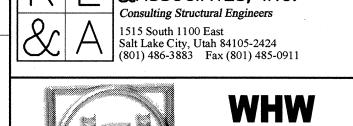
- 1 FLOOR FUNNEL DRAIN FD-2. SEE DETAIL SHEET PE-501.
- 2 2" WASTE DOWN. SEE SHEET PE104 FOR CONTINUATION.
- 2" VENT FROM BELOW, EXTEND THRU ROOF. SEE SHEET PE-102 FOR SOURCE.
- 2" VENT FROM BELOW AND UP. SEE SHEET104 (DRINKING FOUNTAINS) FOR CONTINUATION.
- (5) 2 $\frac{1}{2}$ " V.T.R. FROM TOILET ROOM ON FIRST FLOOR. SEE SHEET PE102 FOR SOURCE.
- 6 3" VENT FROM BELOW, ROUTE IN ATTIC SPACE AS SHOWN TO 3" V.T.R.
- 7 4" VENT FROM BELOW, ROUTE IN ATTIC SPACE AS SHOWN TO 4" V.T.R..
- (8) ROUTE 2" WASTE PIPING IN 3RD FLOOR CEILING SPACE
- 10 1 $\frac{1}{2}$ " VENT FROM BELOW, ROUTE IN ATTIC SPACE AND CONNECT INTO THE 3" V.T.R.

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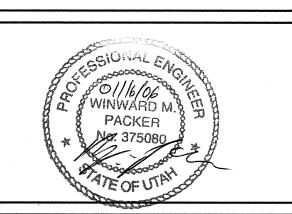








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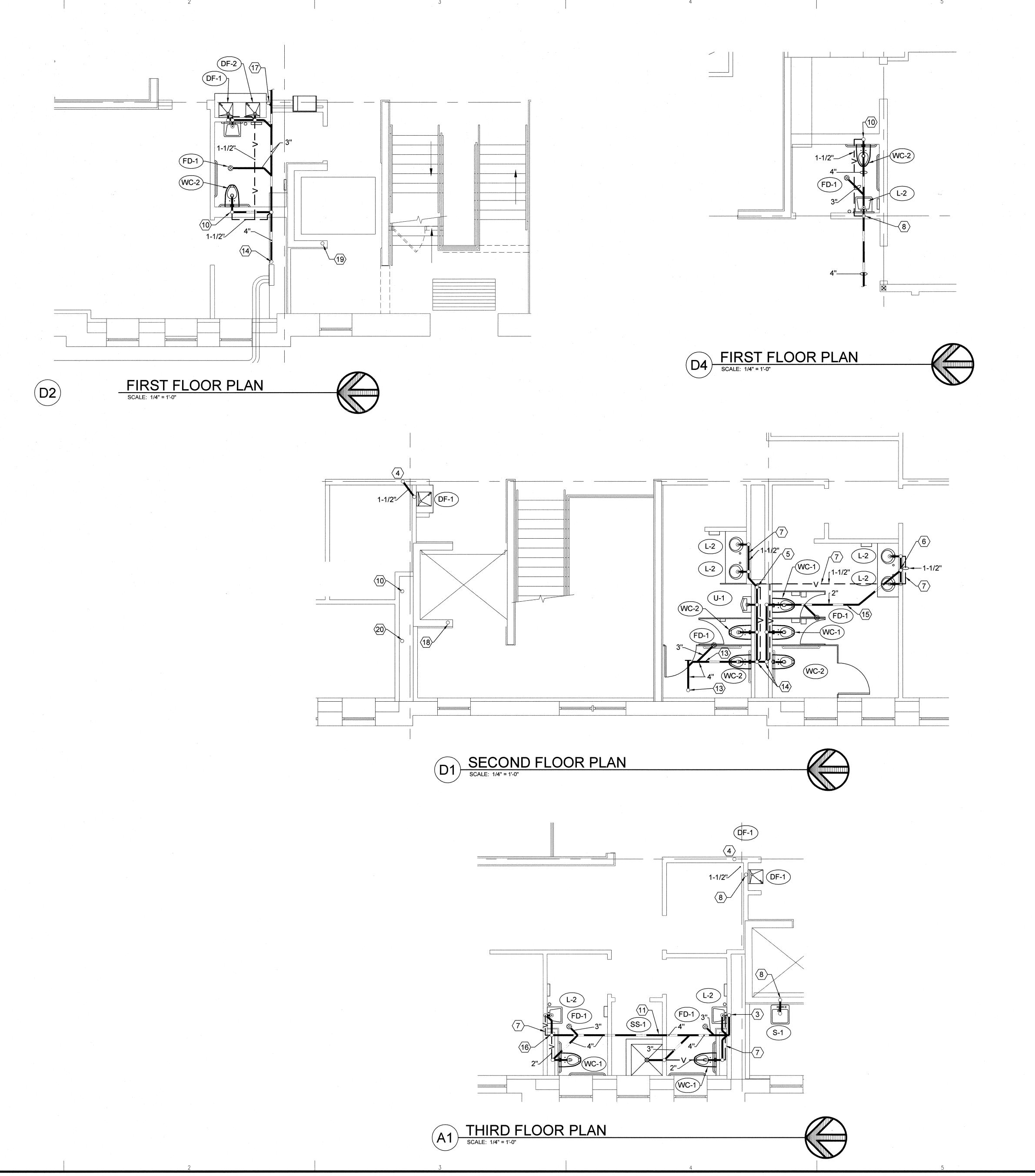
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> **ATTIC PLUMBING PLAN**



- SEE CW AND HW ISOMETRIC SHEET PE902 FOR WATER PIPING THIS AREA.
- SEE WASTE AND VENT ISOMETRIC SHEET PE901 FOR PIPING THIS AREA.
- (3) 4" WASTE DOWN, SEE SECOND FLOOR PLAN FOR CONTINUATION.
- 2" WASTE FROM ABOVE (FD-2). SEE SECOND AND FIRST FLOOR PLANS FOR CONTINUATION.
- 5 4" VENT RISER, SEE THIRD FLOOR PLAN SHEET PE104 FOR CONTINUATION.
- $\langle 6 \rangle$ 2" WASTE DOWN.
- $\langle 7 \rangle$ 1-1/2" VENT, ROUTE IN CEILING.
- (8) 1-1/2" WASTE LINE DOWN, SEE 2ND FLOOR PLAN FOR CONTINUATION.
- 9 2" VENT FROM BELOW. ROUTE IN 3RD FLOOR CEILING SPACE. SEE SHEET PE105 FOR CONTINUATION.
- 2-1/2" VENT UP TO ROOF, SEE SHEET PE103 FOR CONTINUATION.
- $\langle \overline{11} \rangle$ 4" WASTE LINE ROUTED IN 2ND FLOOR CEILING.
- 4" VENT FROM BELOW. SEE SHEET PE103 FOR SOURCE AND PE105 FOR CONTINUATION.
- ROUTE 4" WASTE PIPING IN 1ST FLOOR CEILING AND DROP DOWN WALL. SEE SHEET PE102 FOR CONTINUATION.
- 4" WASTE FROM ABOVE, ROUTE PIPING IN 1ST FLOOR CEILING AND DROP DOWN IN WALL.
- (15) 2" WASTE, ROUTE IN 1ST FLOOR CEILING SPACE.
- 2-1/2" VENT TO ROOF, SEE SHEET PE105 FOR CONTINUATION.
- 2" WASTE FROM ABOVE. SEE ATTIC PLUMBING PLAN SHEET PE105 FOR SOURCE.
- (18) 1-1/2" WASTE FROM S-1, SEE 1ST FLOOR PLAN FOR CONTINUATION.
- (19) 1-1/2" WASTE PIPING FROM S-1 ABOVE.
- 4" WASTE FROM ABOVE. SEE 1ST FLOOR PLAN FOR CONTINUATION.

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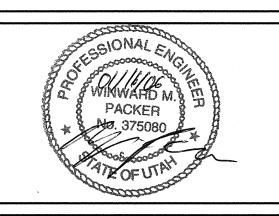
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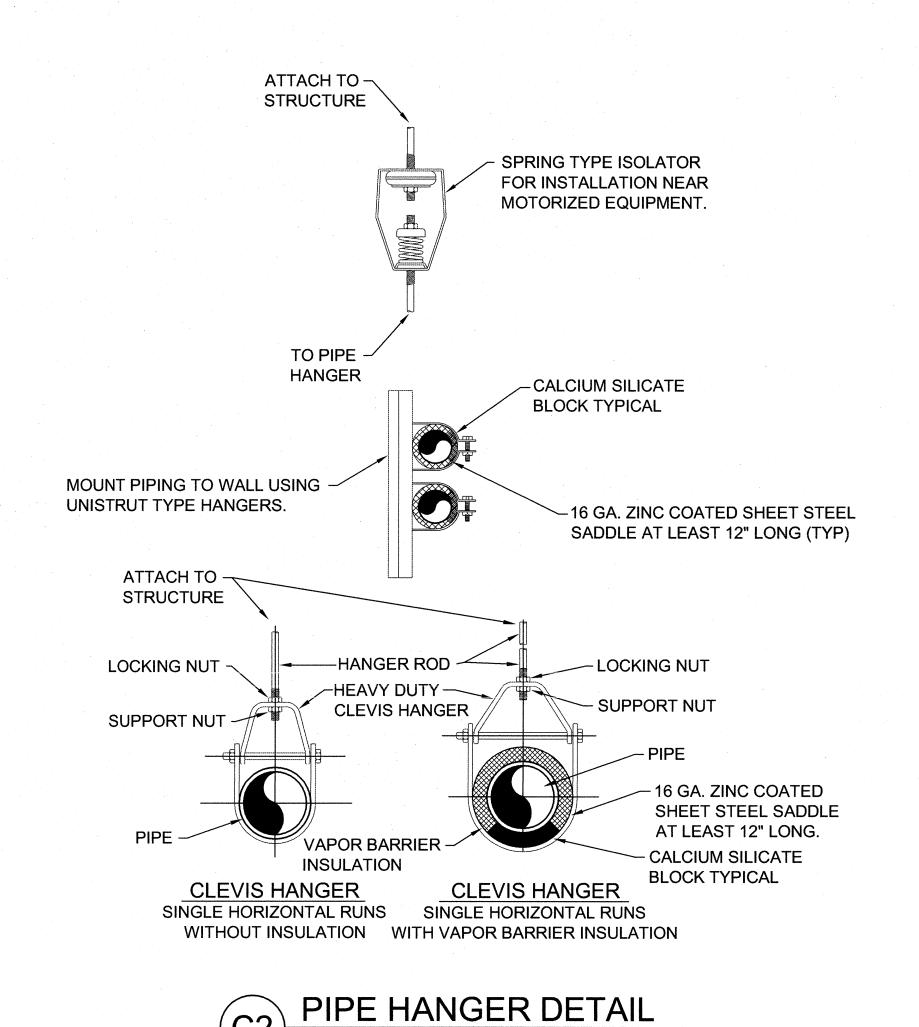
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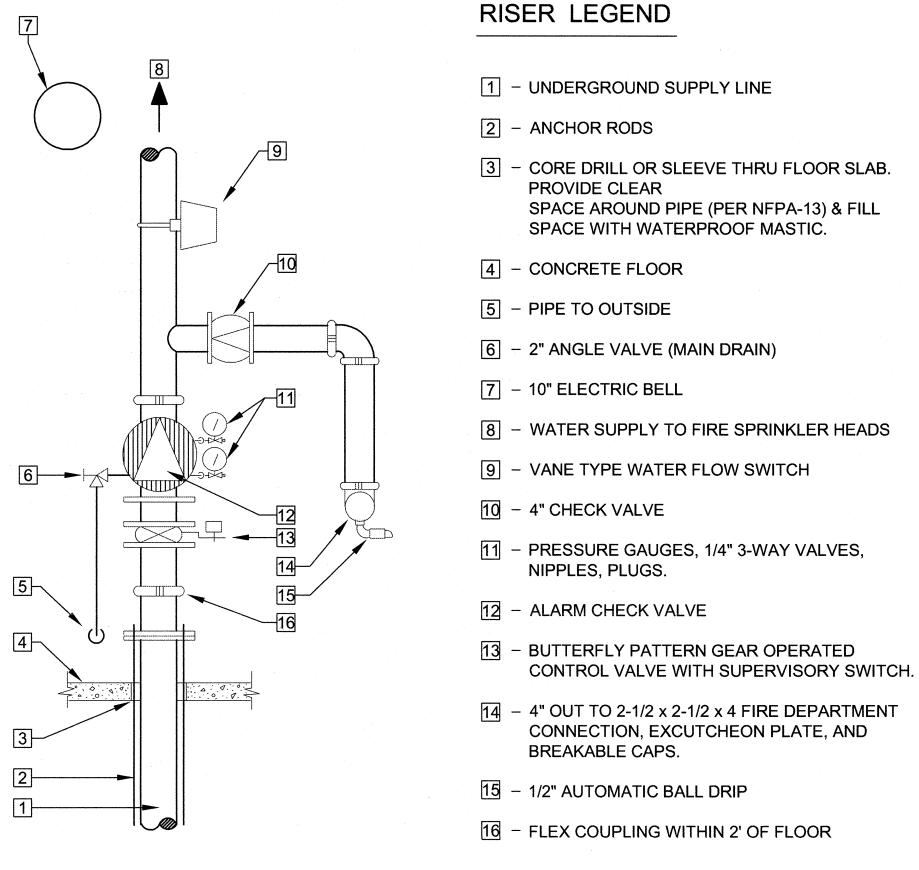
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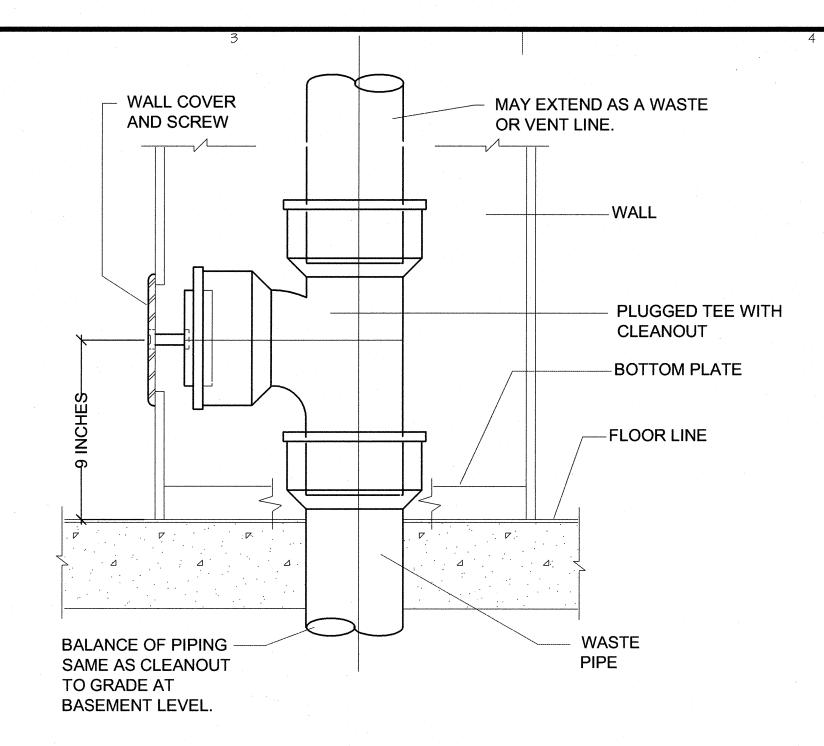
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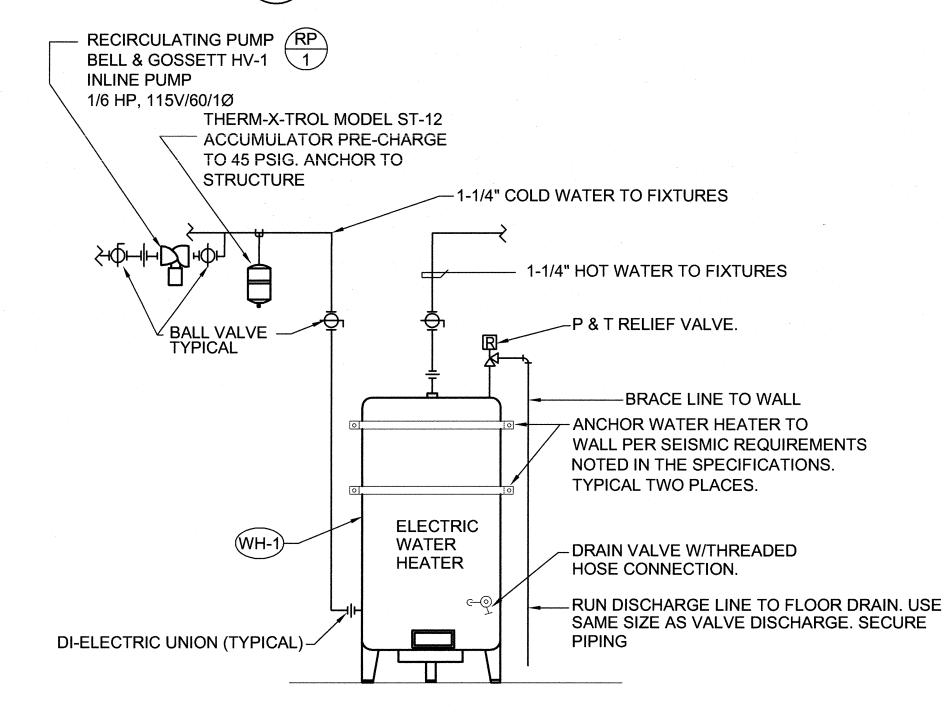
LARGE SCALE
WASTE AND VENT
PLUMBING PLANS



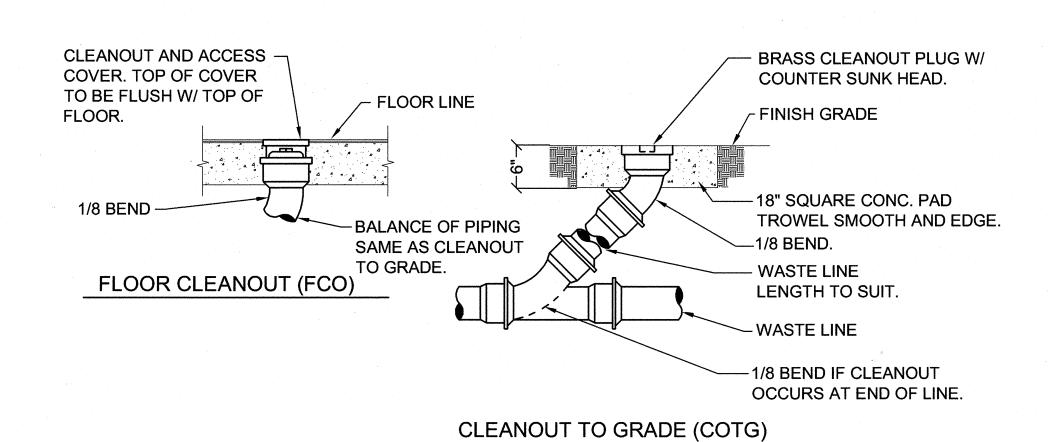




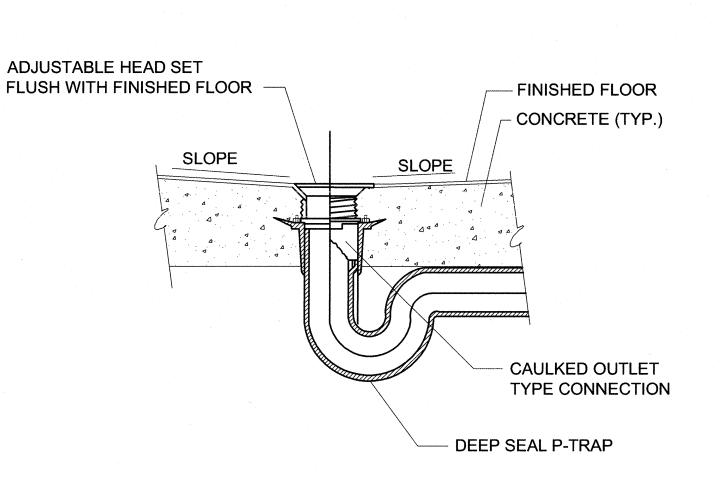
WALL CLEAN-OUT DETAIL SCALE: NONE



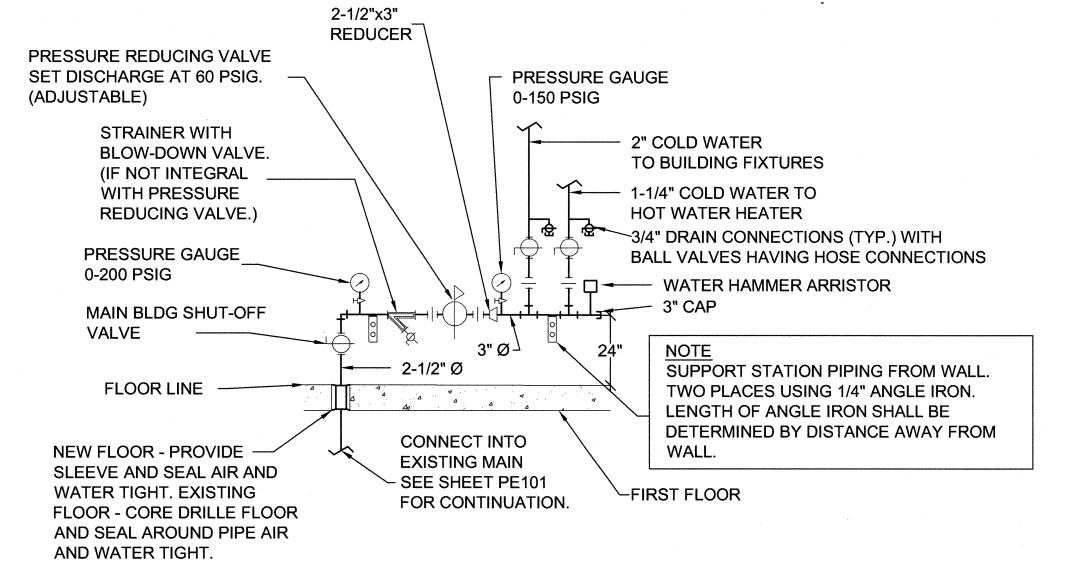
ELECTRIC WATER HEATER DETAIL SCALE: NONE



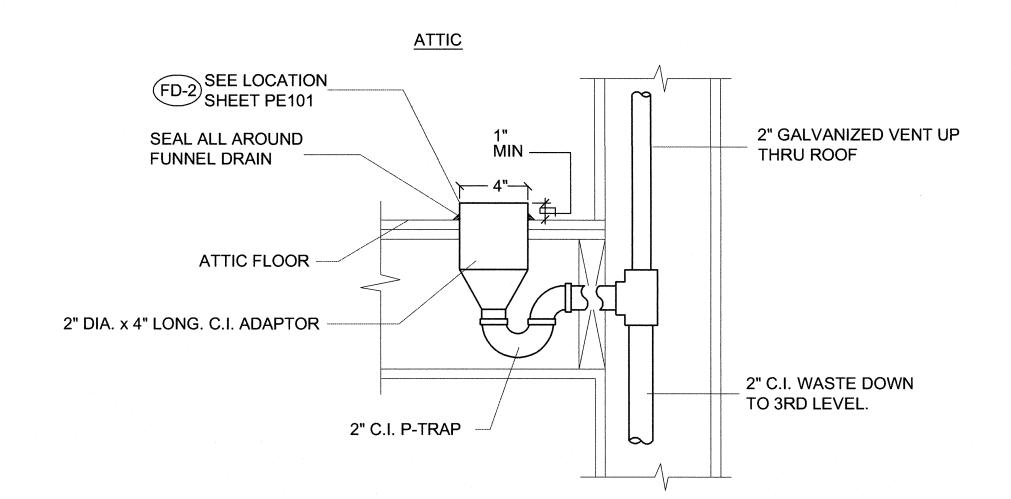
CLEAN-OUT DETAILS



FLOOR DRAIN (FD-1) DETAIL SCALE: NONE



WATER PRESSURE REDUCING STATION DETAIL SCALE: NONE



FUNNEL DRAIN (FD-2) DETAIL

COOPER ROBERTS SIMONSEN **ARCHITECTURE**

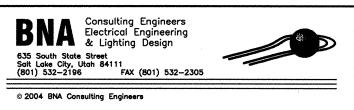
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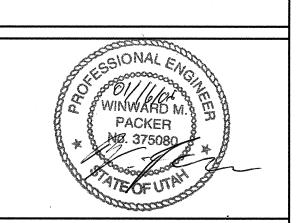
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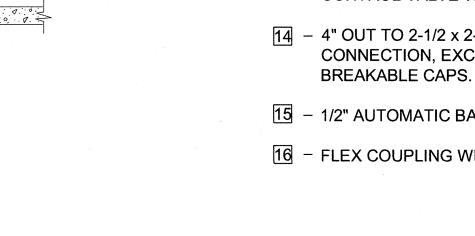
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PLUMBING

DETAILS

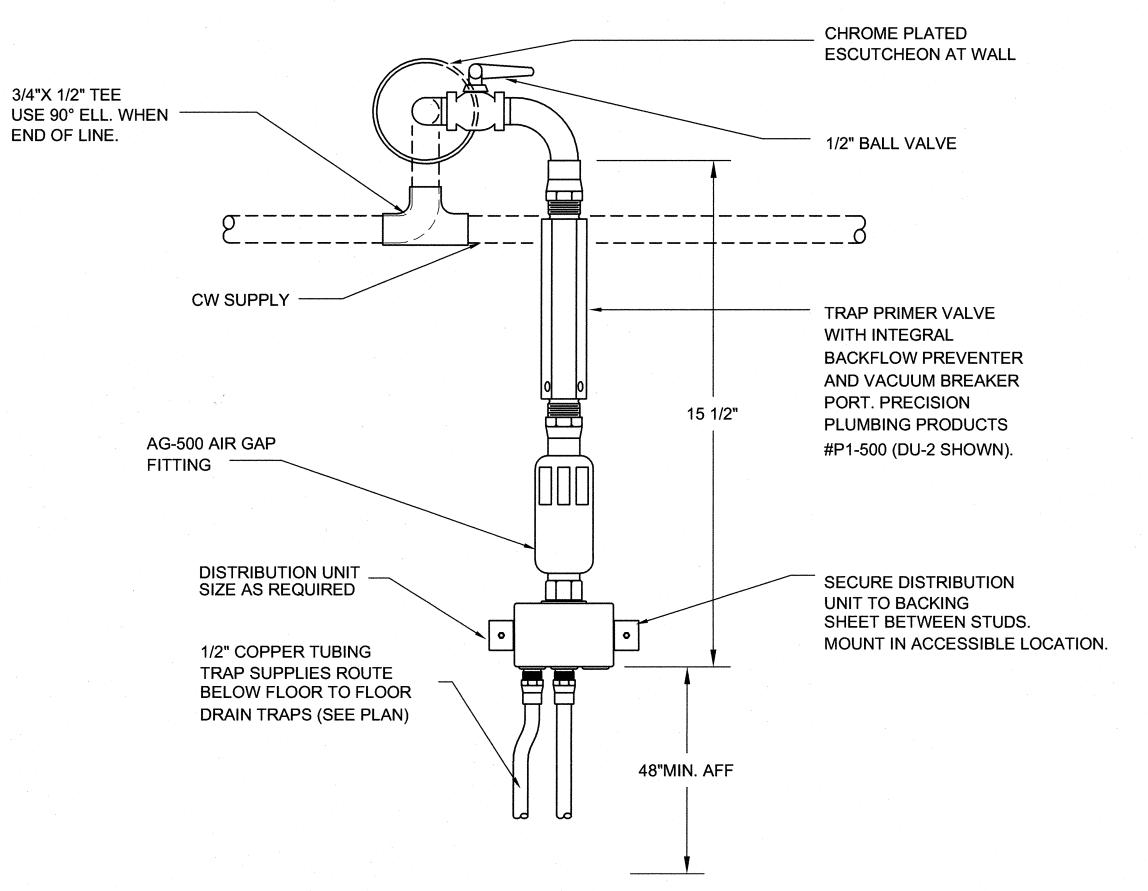
DFCM PROJECT NO.: 03234730

PE501



FIRE RISER DETAIL

SCALE: NONE



D2	TRAP PRIMER	DETAIL
ردر	SCALE: NONE	

		PLUMBING FIXTURE SO							
SYMBOL	MBOL FIXTURE		TRAP WASTE VENT C.W.			H.W.	REMARKS		
(WC-1)	WATER CLOSET	INT.	4"	2"	1"	-	WALL MOUNTED, FLUSH VALVE.		
WC-2)	WATER CLOSET	INT.	4"	2"	1"	-	WALL MOUNTED FLUSH VALVE 18" RIM HEIGHT (ADA COMPLIANT)		
<u>U-1</u>	URINAL	INT.	3"	2"	3/4"	-	WALL MOUNTED. FLUSH VALVE		
(L-1)	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED WITH LEVER HANDLES INSULATION KIT (ADA COMPLIANT)		
(L-2)	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	SELF SUPPORTING WITH LEVER HANDLES INSULATION KIT (ADA COMPLIANT)		
FD-1	FLOOR DRAIN	3"	3"	2"	-	-	WITH DEEP SEAL P-TRAP. PROVIDE WITH TRAP PRIMER CONNECTION.		
FD-2	FUNNEL DRAIN	2"	2"	2"	-	-	SEE DETAIL-ATTIC DRAIN		
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	-	ELECTRIC WATER COOLER (ADA COMPLIANT)		
(SS-1)	SERVICE SINK	3"	3"	2"	1/2"	1/2"	FLOOR MOUNTED BY G.C.		
SP-1	SUMP PUMP	-	-	_	_	-	SUBMERSIBLE		
RP-1	RECIRCULATING PUMP		-	-	-	-	1/6 HP, 120/1/60, B&G HV-1 OR EQUAL		
<u>S-1</u>	SINK (CATERING)	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED SINK		
WH-1)	WATER HEATER	-	-	-	_	· _	ELECTRIC WATER HEATER		

- ① WATER HEATER A.O. SMITH MODEL DVE-52, 50 GAL. TANK, 1-1/4" INLET AND OUTLET, 61 GPH RECOVERY, 15KW INPUT, 3 ELEMENTS AT 5000 WATTS (EA), 208/60/3 φ, 41.6 FLA.
- CONTRACTOR SHALL PROVIDE A PORTABLE SUMP PUMP FOR ELEVATOR PIT TO THE UNIVERSITY. PUMP SHALL BE EQUAL TO WEIL 1409, 1-1/4", 1/3 HP, 120/1/60, 25 FOOT ELECTRICAL CORD.
- ③ SEE SERVICE SINK DETAIL E2/AE401.

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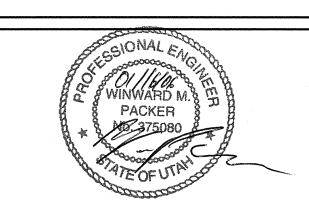
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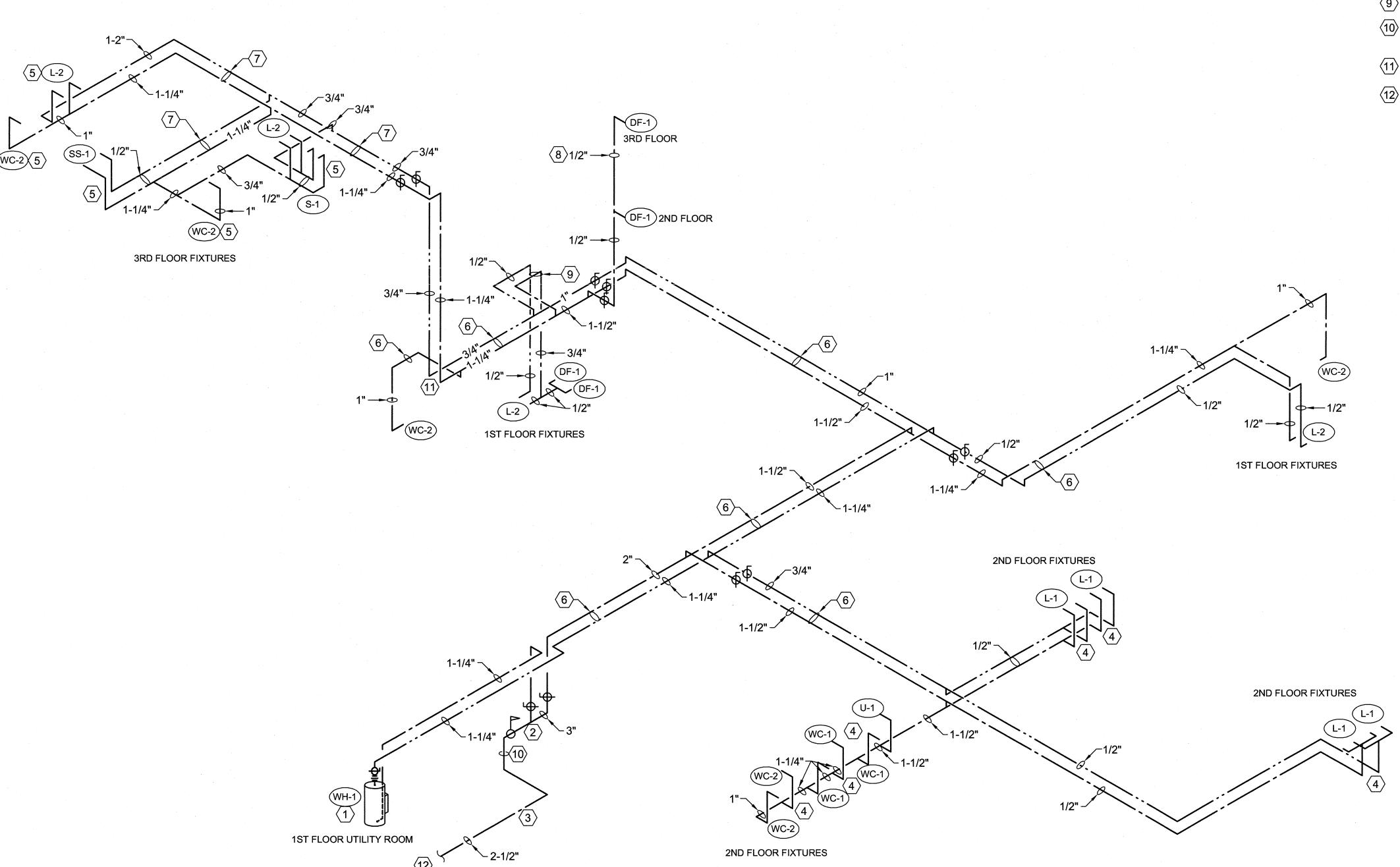
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DFCM PROJECT NO.: 03234730
DTN

PLUMBING SCHEDULES AND

DETAILS



COLD AND HOT WATER ISOMETRICS
SCALE: NONE

- (1) WATER HEATER, SEE DETAIL SHEET PE501.
- (2) COLD WATER HEADER, SEE DETAIL SHEET PE501.
- $\langle 3 \rangle$ ROUTE COLD WATER PIPING IN BASEMENT.
- (4) RISE UP TO FIXTURES ON 2ND FLOOR.
- (5) RISE UP TO FIXTURES ON 3RD FLOOR.
- 6 ROUTE HOT AND COLD WATER PIPING IN FIRST FLOOR CEILING SPACE.
- 7 ROUTE HOT AND COLD WATER PIPING IN SECOND FLOOR CEILING SPACE.
- (8) COLD WATER RISER FROM 1ST FLOOR CEILING SPACE TO 3RD FLOOR DRINKING FOUNTAIN.
- 9 DROP WATER DOWN SHAFT TO 1ST FLOOR FIXTURES.
- RISE UP FROM BASEMENT TO HEADER SEAL SLEEVE AIR AND WATER TIGHT.
- 11) RISE UP IN SHAFT TO SECOND FLOOR CEILING SPACE.
- 2-1/2" WATER SERVICE TO BUILDING.

COOPER
ROBERTS
SIMONSEN
ARCHITECTURE

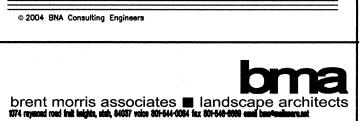
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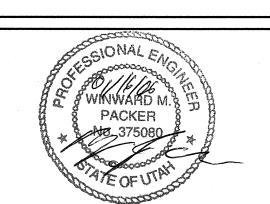
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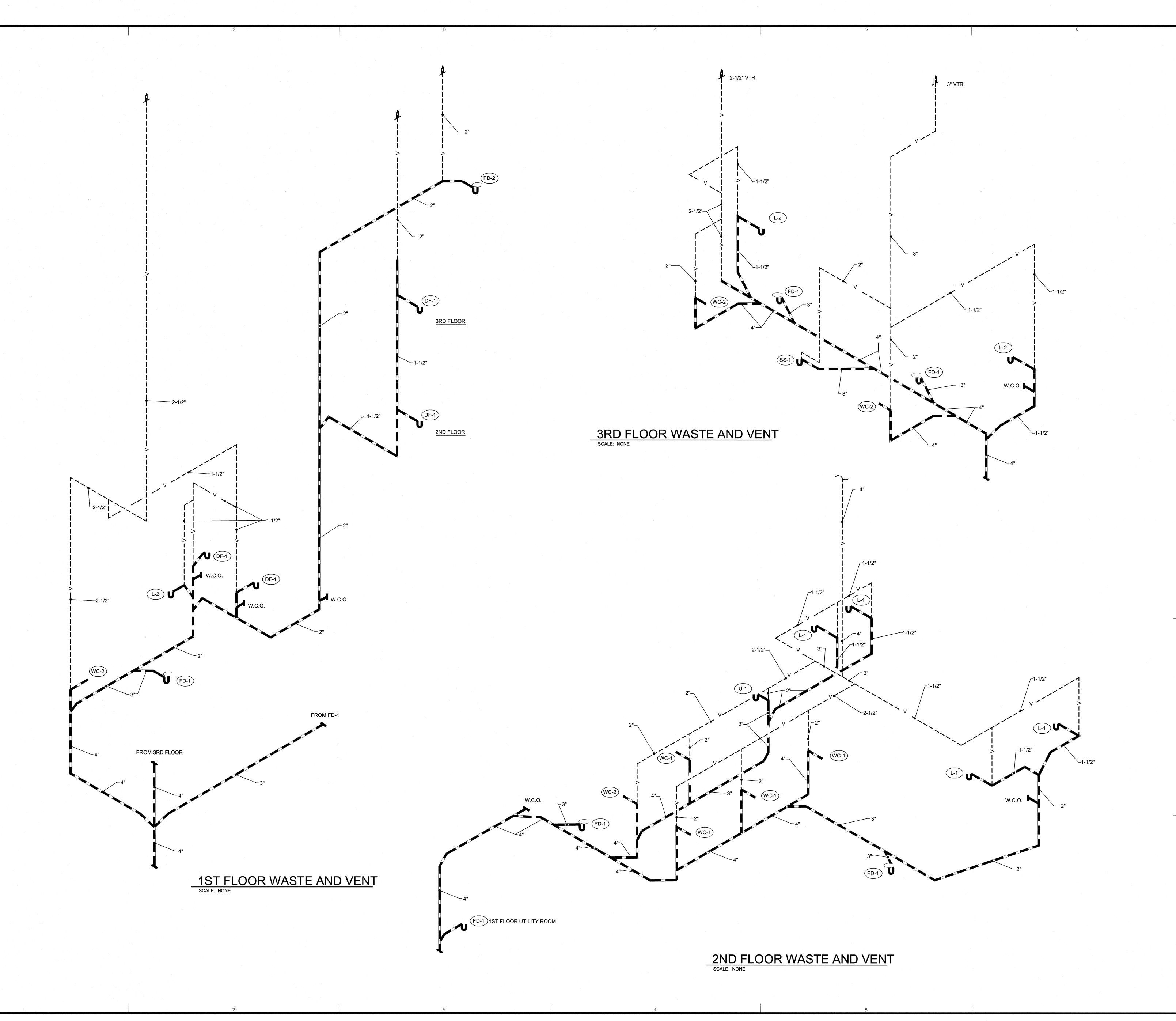
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COLD AND HOT WATER ISOMETRICS



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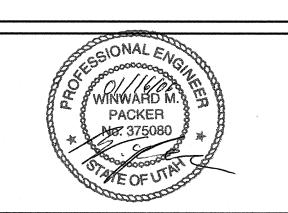
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WASTE AND VENT ISOMETRICS

	DECODIDATION	0) (1 1 0 0 1	Tabb	T DECORPTION	T 0\0.450;		T STOODING			
<u>≺.</u> M	DESCRIPTION INOLOGY	SYMBOL AIR SIDE	ABR.	DESCRIPTION	SYMBOL WET SIDE	ABR.	DESCRIPTION	SYMBOL WET SIDE	ABR.	
V	SECTION LETTER DESIGNATION			EVICTING AID DUICT TO DE DEMOVED			DUMD	WET SIDE	CON I	T
		├┤ ₺ ∄		EXISTING AIR DUCT TO BE REMOVED			PUMP			PITCH DOWN
	- SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN		PSD	PUMP SUCTION DIFFUSER	0		ELBOW UP
	_ DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID			NEW AIR DUCT				C		ELBOW DOWN
	LOCATION	口 口 口 口		RECT. TO RECT. AIR DUCT TAKE-OFF			UNION			TEE UP
	- MECHANICAL EQUIPMENT DESIGNATION	、 上 百		RECT. TO RND. AIR DUCT TAKE-OFF			MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)			TEE DOWN
	- EQUIPMENT ITEM DESIGNATION	五百		RND. TO RND. AIR DUCT TAKE-OFF	<u>'</u>					EXISTING PIPING TO BE RE
	REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING	├ र्-}- <u>सर्</u> वीष		RECT. TAKE-OFF AT END OF MAIN	T		MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)			EXISTING PIPING TO REMAI
	CFM LISTED BELOW	/ - - - - - - - - - - 		BURIED OR UNDER FLOOR DUCT						NEW PIPING
	GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED	<u></u>		FLEXIBLE AIR DUCT	7		PNEUMATIC DIAPHRAGM ACTUATOR			PIPE CAP OR PLUG
	WHERE BALANCING NOT REQUIRED		4 2	LINED DUCT	M		ELECTRIC MOTOR ACTUATOR	<u> </u>		CONCENTRIC REDUCER
	REVISION DESIGNATOR AND NUMBER	口语		VANED ELBOW	2		SOLENOID ACTUATOR			ECCENTRIC REDUCER
	KEY NOTE DESIGNATOR AND NUMBER			RADIUS ELBOW	\longrightarrow		THREADED OR SWEAT VALVE CONNECTION			EXPANSION JOINT
)	POINT OF CONNECTION	E W		CONCENTRIC DUCT TRANSITION			FLANGED VALVE CONNECTION		·	FLEXIBLE CONNECTION
₹	POINT OF REMOVAL	Ť H		ECCENTRIC DUCT TRANSITION	—II—		BUTTERFLY VALVE	$-\times$		ANCHOR POINT
	ABOVE FINISHED FLOOR			FLEXIBLE DUCT CONNECTION	─ ⊠─		GATE VALVE			CONDENSATE DRAIN
	ACCESS PANEL	₽ VD		VOLUME DAMPER			GLOBE VALVE - STRAIGHT PATTERN	CF		CHEMICAL FEED LINE
	CENTER LINE ELEVATION	Ø		SUPPLY AIR DIFFUSER	**		GLOBE VALVE - ANGLE PATTERN	MU		MAKE-UP WATER LINE
	INVERT ELEVATION	Q		RETURN AIR, FRESH AIR, AND TRANSFER AIR	M — —		MOTORIZED 2-WAY CONTROL VALVE		CW	CULINARY COLD WATER
	GENERAL CONTRACTOR	<u> </u>		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE	M		MOTORIZED 3-WAY CONTROL VALVE		HW	CULINARY HOT WATER
	MECHANICAL CONTRACTOR			RETURN OR OUTSIDE AIR DUCT UP			CHECK VALVE			RECIRCULATED CULINARY
	CONTROL CONTRACTOR			SUPPLY DUCT UP		PRV	PRESSURE REDUCING VALVE	— DR—		EQUIPMENT DRAIN
	ELECTRICAL CONTRACTOR			EXHAUST AIR INTAKE UP		PRV	PRES REDUCING VALVE W/ CHECK	-HWS-		HEATING WATER SUPPLY
	FIRE PROTECTION CONTRACTOR			RETURN OR OUTSIDE AIR DUCT DOWN	-	CBV	CIRCUIT BALANCING VALVE	HWR-		HEATING WATER RETURN
	NOT IN CONTRACT			SUPPLY DUCT DOWN	_б_	BV	BALL VALVE	-CHWS-	·	CHILLED WATER SUPPLY
	NOT TO SCALE			EXHAUST DUCT DOWN		PRV	PRESSURE RELIEF VALVE	-CHWR-		CHILLED WATER RETURN
*****	COMMON	H9 (10)		ROUND DUCT UP	₩ Υ Ρ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	TRV	THERMAL RELIEF VALVE			
	NORMALLY CLOSED	4 ED		ROUND DUCT DOWN	<u> </u>	SRV	SAFETY RELIEF VALVE	LPS		LOW PRESSURE STEAM PE
		·				SIXV	PLUG VALVE	-LPR-	·····	LOW PRESSURE STEAM RE
	NORMALLY OPEN			FLEXIBLE DUCT CONNECTION	- DEJ-			MPS		MEDIUM PRESSURE STEAM
				FILTER BANK		TDV	NEEDLE VALVE	MPR		MEDIUM PRESSURE STEAM
				COIL	(Friends)		TRIPLE DUTY VALVE	—PC—	kunaharin oran engangan asalah ka	PUMPED CONDENSATE
				VOLUME DAMPER		TDV	TRIPLE DUTY VALVE - ANGLE			
			AP	ACCESS PANEL						
		<u>L_J</u>		EXISTING EQUIPMENT TO BE REMOVED			AUTOMATIC AIR VENT			
			ļ	EXISTING EQUIPMENT TO REMAIN	<u> </u>		MANUAL AIR VENT			
				NEW EQUIPMENT	_2_		STRAINER			
		M	MVD	MOTORIZED VOLUME DAMPER	, A		STRAINER W/ PLUGGED BLOW OFF			
,		BD	BD	BACKDRAFT DAMPER		VTI	VENTURI			
		<u>F</u>	FD	FIRE DAMPER	Q		PRESSURE GAUGE AND GAUGE COCK -WATER			
		F\$>	FS	FIRE & SMOKE DAMPER	I					
		T	T'STAT	WALL MOUNTED THERMOSTAT	0		PRESSURE GAUGE AND GAUGE COCK -STEAM			
		F	F'STAT	WALL MOUNTED FIRESTAT	<u> </u>					
		SA		SUPPLY AIR	- поличний п		THERMOMETER AND THERMOWELL			
		RA		RETURN AIR						
		EA		EXHAUST AIR	Ş		WATER TEMPERATURE SENSOR AND THERMOWELL			
		OA		OUTSIDE AIR			7 W O THE WOVELL			
		MA		MIXED AIR	F		FLOW SWITCH			
		FA	,	FRESH AIR						
		RF		RELIEF AIR	PS	PS	PRESSURE SWITCH			
					<u> </u>					
						TW	THERMOWELL			
					T		PRESS. & TEMP. TAP			
			·		— T iBT		INVERTED BUCKET STEAM TRAP			
					$-\otimes_{TT}$		THERMOSTATIC STEAM TRAP			
					——————————————————————————————————————		FLOAT & THERMOSTATIC STEAM TRAP			
	·				. ~ F&I					
					-		DIRECTION OF FLOW			

SYMBOL ABR.

CFM

R-1

INV. ELEV

NC

NO

GENERAL TERMINOLOGY

| POC | POINT OF CONNECTION

POR POINT OF REMOVAL

GENERAL NOTES:

EXISTING PIPING TO BE REMOVED

EXISTING PIPING TO REMAIN

LOW PRESSURE STEAM RETURN

MEDIUM PRESSURE STEAM RETURN

RECIRCULATED CULINARY HOT WATER

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

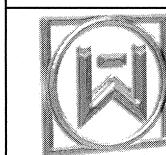
- ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
- PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-12 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS. MOTOR NAMEPLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT, THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT, THREE PHASE, OR SINGLE PHASE SYSTEM. STARTER HEATER INSTALLED SHALL BE COORDINATED WITH THE NAMEPLATE DATA.
- G-13 C.F.M. LISTED IS ACTUAL AIR.
- SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

COOPER ROBERTS SIMONSEN ARCHITECTURE

crsa

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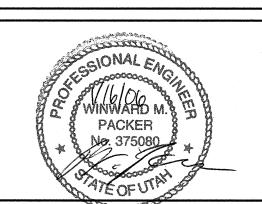


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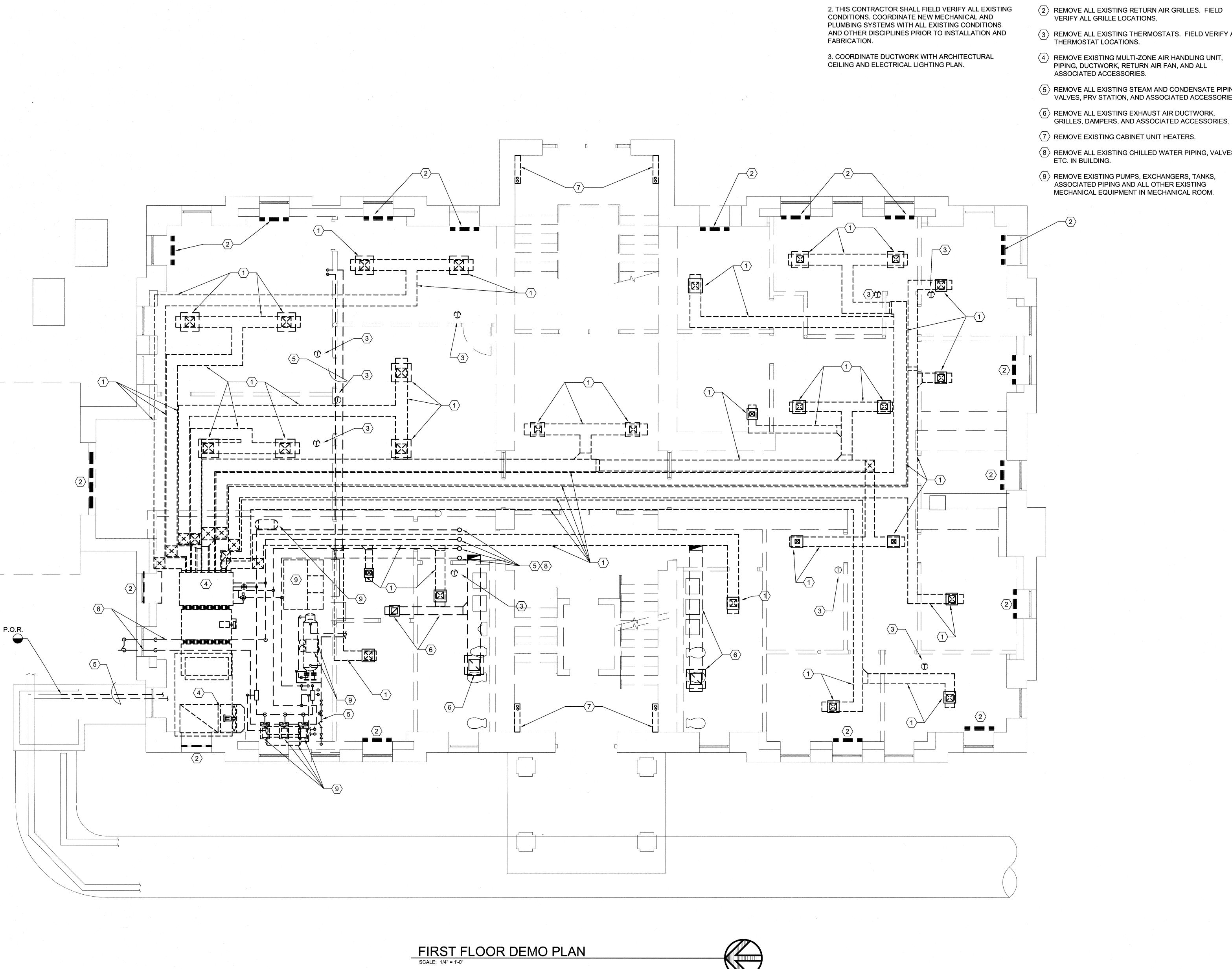
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ARCHITECT PROJECT NO.: B04-012 FCM PROJECT NO.: 03234730

> **GENERAL NOTES AND LEGEND**

M001



GENERAL NOTE:

AIR SYSTEMS.

1. THE INTENT IS TO REMOVE ALL OF THE EXISTING

MECHANICAL SYSTEM INCLUDING HOT AND CHILLED

- $\langle 1 \rangle$ REMOVE ALL EXISTING SUPPLY AIR DUCTWORK, DIFFUSERS, GRILLES, DAMPERS, HANGERS, AND ALL WATER PIPING, CONTROLS, AIR HANDLING UNITS (2) AND ASSOCIATED ACCESSORIES.
 - (2) REMOVE ALL EXISTING RETURN AIR GRILLES. FIELD
 - (3) REMOVE ALL EXISTING THERMOSTATS. FIELD VERIFY ALL THERMOSTAT LOCATIONS.
 - REMOVE EXISTING MULTI-ZONE AIR HANDLING UNIT, PIPING, DUCTWORK, RETURN AIR FAN, AND ALL
 - (5) REMOVE ALL EXISTING STEAM AND CONDENSATE PIPING, VALVES, PRV STATION, AND ASSOCIATED ACCESSORIES.

 - $\langle 7 \rangle$ REMOVE EXISTING CABINET UNIT HEATERS.
 - 8 REMOVE ALL EXISTING CHILLED WATER PIPING, VALVES ETC. IN BUILDING.
 - $\left\langle 9\right\rangle$ REMOVE EXISTING PUMPS, EXCHANGERS, TANKS, ASSOCIATED PIPING AND ALL OTHER EXISTING

COOPER ROBERTS SIMONSEN ARCHITECTURE

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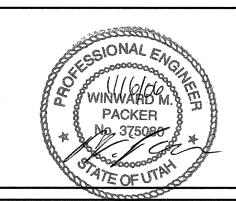


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4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH

JAN 2 3 2006

ARCHITECT PROJECT NO.: B04-012

DFCM PROJECT NO.: 03234730

FIRST FLOOR **DEMO PLAN**

MD101

GENERAL NOTE:

1. THE INTENT IS TO REMOVE ALL OF THE EXISTING MECHANICAL SYSTEM INCLUDING HOT AND CHILLED WATER PIPING, CONTROLS, AIR HANDLING UNITS (2) AND AIR SYSTEMS.

2. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. COORDINATE NEW MECHANICAL AND PLUMBING SYSTEMS WITH ALL EXISTING CONDITIONS AND OTHER DISCIPLINES PRIOR TO INSTALLATION AND FABRICATION.

3. COORDINATE DUCTWORK WITH ARCHITECTURAL CEILING AND ELECTRICAL LIGHTING PLAN.

1 ALL EXISTING SUPPLY AIR DUCTWORK, DIFFUSERS, GRILLES, DAMPERS, HANGERS AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.

- 2 ALL EXISTING RETURN AIR DUCTWORK, GRILLES, DAMPERS, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.
- 3 ALL EXISTING THERMOSTATS SHALL BE REMOVED. FIELD VERIFY LOCATION OF ALL EXISTING THERMOSTATS.
- $\overline{\langle 4 \rangle}$ ALL EXISTING DUAL DUCT BOXES SHALL BE REMOVED.
- (5) ALL PIPING VALVES, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.
- 6 ALL EXISTING EXHAUST AIR DUCTWORK, GRILLES, DAMPERS, AND ALL ASSOCIATED ACCESSORIES, SHALL BE REMOVED.

SHEET NOTES:

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SIMONSEN
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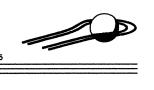
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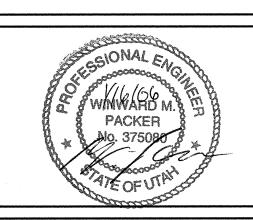


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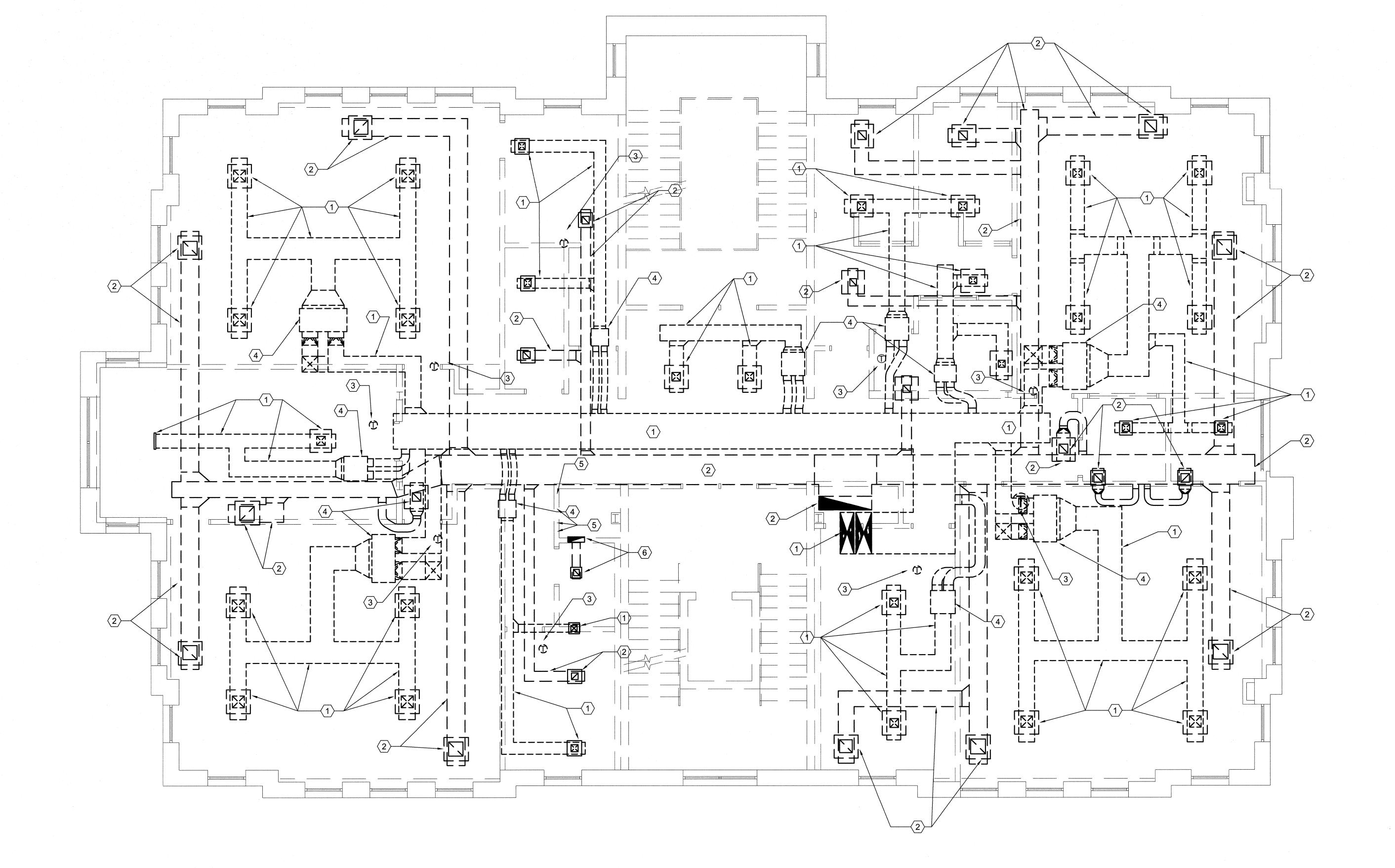
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DFCM PROJECT NO.: 03234730
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SECOND FLOOR DEMO PLAN

MD102



GENERAL NOTE:

1. THE INTENT IS TO REMOVE ALL OF THE EXISTING MECHANICAL SYSTEM INCLUDING HOT AND CHILLED WATER PIPING, CONTROLS, AIR HANDLING UNITS (2) AND AIR SYSTEMS.

2. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. COORDINATE NEW MECHANICAL AND PLUMBING SYSTEMS WITH ALL EXISTING CONDITIONS AND OTHER DISCIPLINES PRIOR TO INSTALLATION AND FABRICATION.

3. COORDINATE DUCTWORK WITH ARCHITECTURAL CEILING AND ELECTRICAL LIGHTING PLAN.

 $\langle 1 \rangle$ ALL EXISTING SUPPLY AIR DUCTWORK, DIFFUSERS, GRILLES, DAMPERS, HANGERS AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.

SHEET NOTES:

- 2 ALL EXISTING RETURN AIR DUCTWORK, GRILLES, DAMPERS, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.
- (3) ALL EXISTING THERMOSTATS SHALL BE REMOVED.
- 4 ALL EXISTING DUAL BOXES SHALL BE REMOVED.
- (5) EXISTING AIR HANDLING UNIT IN ATTIC SPACE INCLUDING PIPING, DUCTWORK, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.
- (6) ALL PIPING VALVES, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.
- 7 ALL EXISTING EXHAUST AIR DUCTWORK, GRILLES, DAMPERS, AND ALL ASSOCIATED ACCESSORIES, SHALL BE REMOVED.
- (8) EXISTING FRESH AIR DUCTWORK, LOUVERS, AND ALL ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED.

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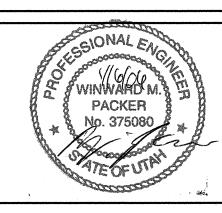


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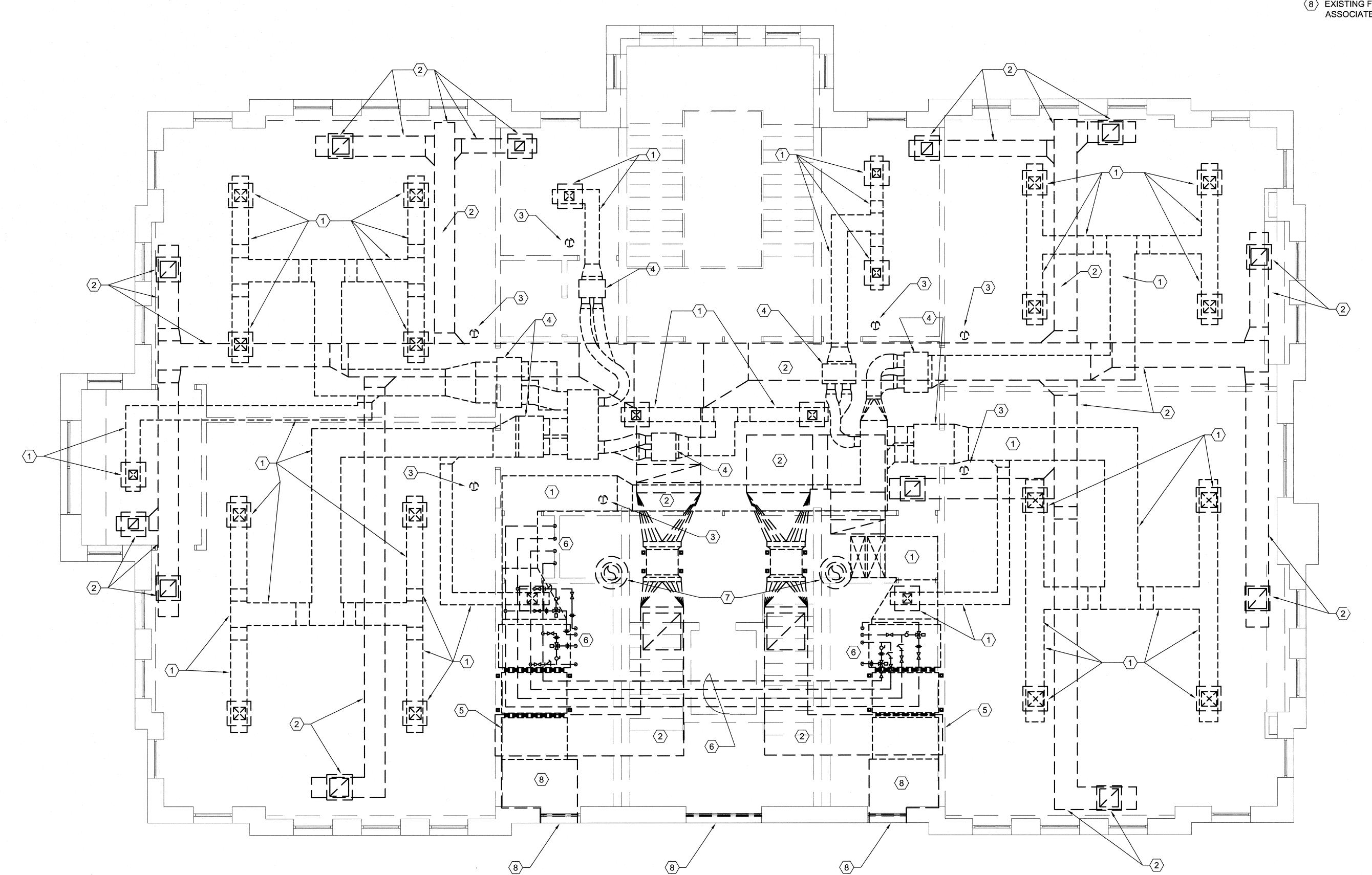
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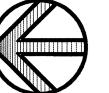
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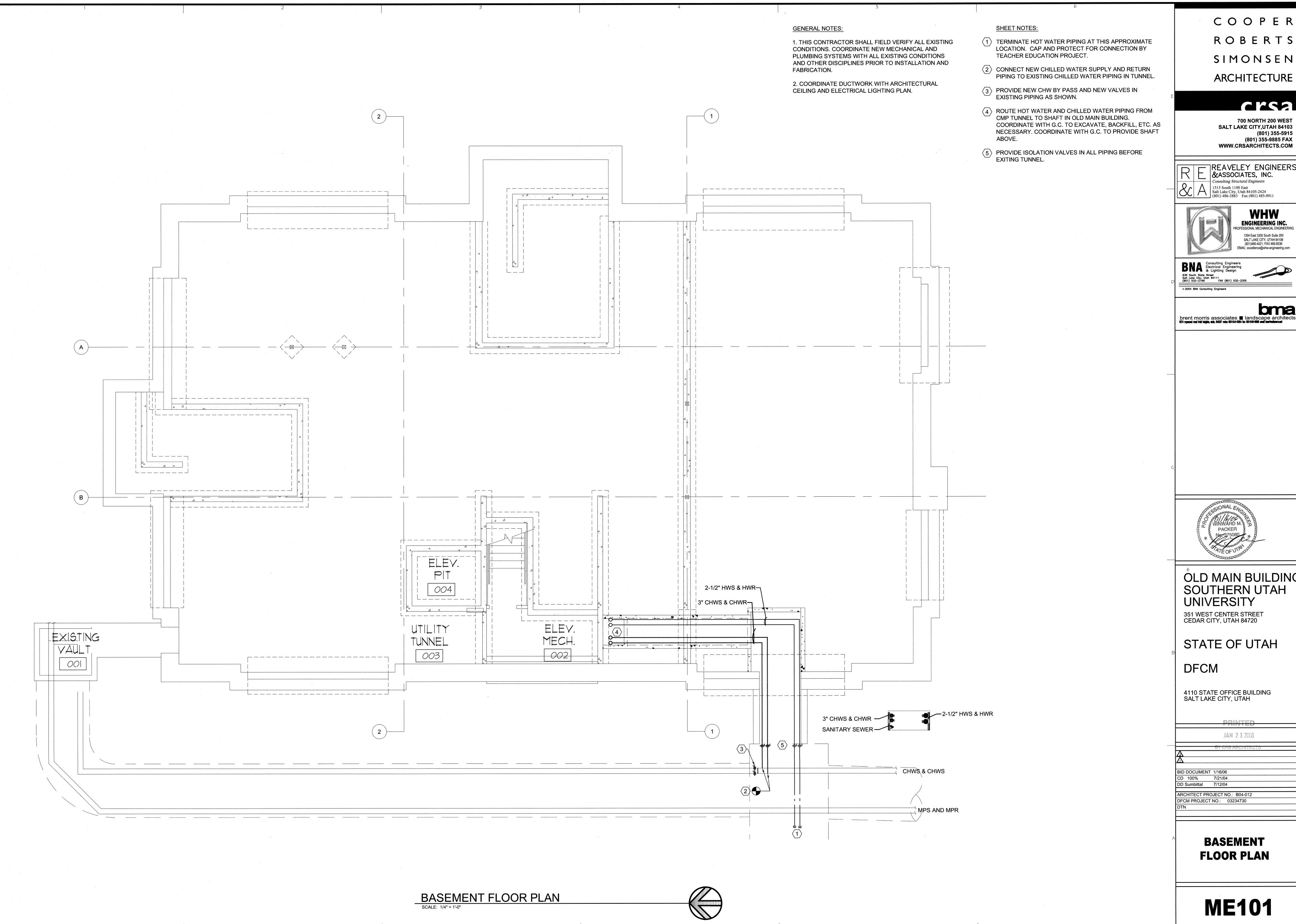
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> THIRD FLOOR **DEMO PLAN**

MD103







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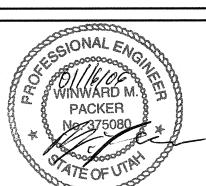
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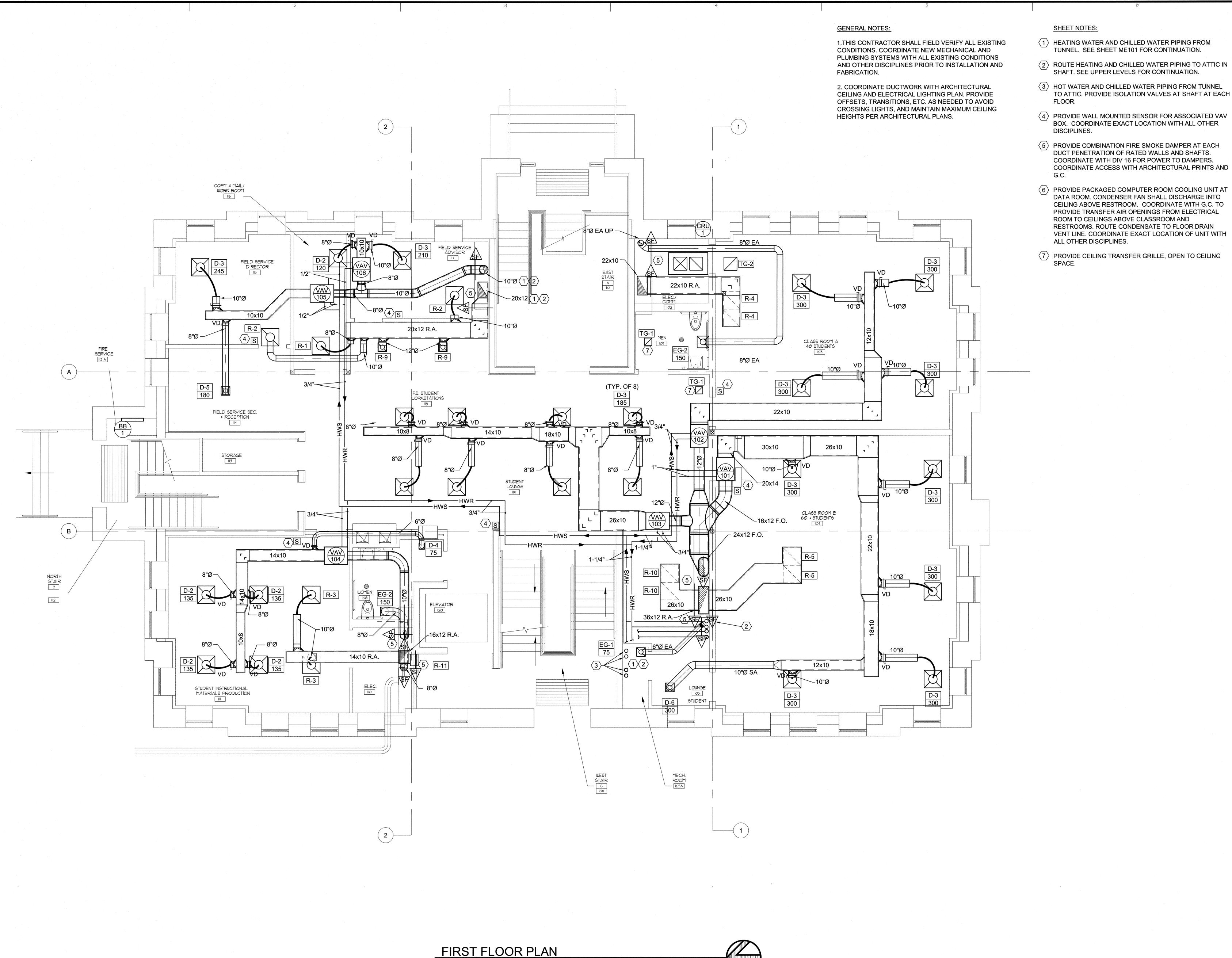
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FLOOR PLAN



- (1) HEATING WATER AND CHILLED WATER PIPING FROM TUNNEL. SEE SHEET ME101 FOR CONTINUATION.
- 2 ROUTE HEATING AND CHILLED WATER PIPING TO ATTIC IN SHAFT. SEE UPPER LEVELS FOR CONTINUATION.
- (3) HOT WATER AND CHILLED WATER PIPING FROM TUNNEL
- 4 PROVIDE WALL MOUNTED SENSOR FOR ASSOCIATED VAV BOX. COORDINATE EXACT LOCATION WITH ALL OTHER
- (5) PROVIDE COMBINATION FIRE SMOKE DAMPER AT EACH DUCT PENETRATION OF RATED WALLS AND SHAFTS. COORDINATE WITH DIV 16 FOR POWER TO DAMPERS. COORDINATE ACCESS WITH ARCHITECTURAL PRINTS AND
- $\overline{\langle 6 \rangle}$ PROVIDE PACKAGED COMPUTER ROOM COOLING UNIT AT DATA ROOM. CONDENSER FAN SHALL DISCHARGE INTO CEILING ABOVE RESTROOM. COORDINATE WITH G.C. TO PROVIDE TRANSFER AIR OPENINGS FROM ELECTRICAL ROOM TO CEILINGS ABOVE CLASSROOM AND RESTROOMS. ROUTE CONDENSATE TO FLOOR DRAIN VENT LINE. COORDINATE EXACT LOCATION OF UNIT WITH ALL OTHER DISCIPLINES.
- 7 PROVIDE CEILING TRANSFER GRILLE, OPEN TO CEILING

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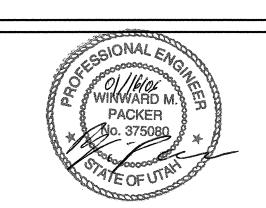
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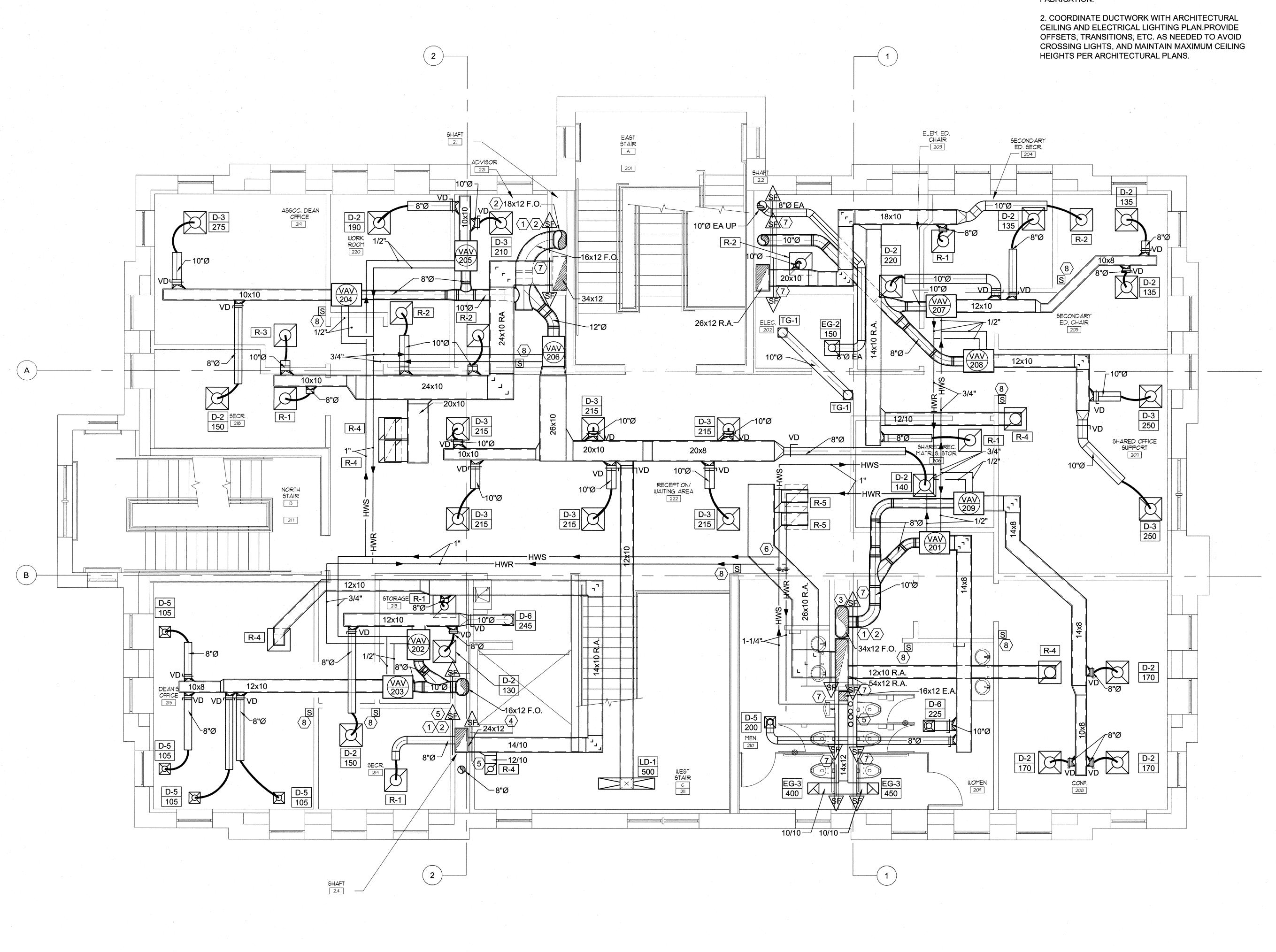
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ARCHITECT PROJECT NO.: B04-012 DFCM PROJECT NO.: 03234730

FIRST FLOOR

PLAN



SECOND FLOOR PLAN

GENERAL NOTES:

1. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. COORDINATE NEW MECHANICAL AND PLUMBING SYSTEMS WITH ALL EXISTING CONDITIONS AND OTHER DISCIPLINES PRIOR TO INSTALLATION AND FABRICATION.

SHEET NOTES:

- (1) ROUTE DUCT IN SHAFT TO AIR HANDLER. SEE FIRST AND THIRD FLOOR PLANS FOR CONTINUATION.
- 2 PROVIDE FIRE/SMOKE DAMPERS AT ALL SHAFT PENETRATIONS.
- $\langle 3 \rangle$ 24x12 F.O. TO FIRST LEVEL BELOW.
- 4 10" DUCT TO FIRST LEVEL BELOW.
- (5) ROUTE HEATING WATER AND CHILLED WATER PIPING FROM TUNNEL TO AIR HANDLER IN SHAFT. SEE UPPER AND LOWER LEVELS FOR CONTINUATION.
- (6) PROVIDE ISOLATION VALVES IN PIPING AT SHAFT EACH
- 7 PROVIDE COMBINATION FIRE SMOKE DAMPER AT EACH DUCT PENETRATION OF RATED WALLS AND SHAFTS. COORDINATE WITH DIV 16 FOR POWER TO DAMPERS. COORDINATE ACCESS WITH ARCHITECTURAL PRINTS AND
- (8) PROVIDE WALL MOUNTED SENSOR FOR EACH VAV BOX. COORDINATE EXACT LOCATION WITH ALL DISCIPLINES.

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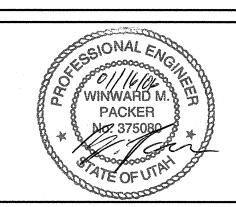


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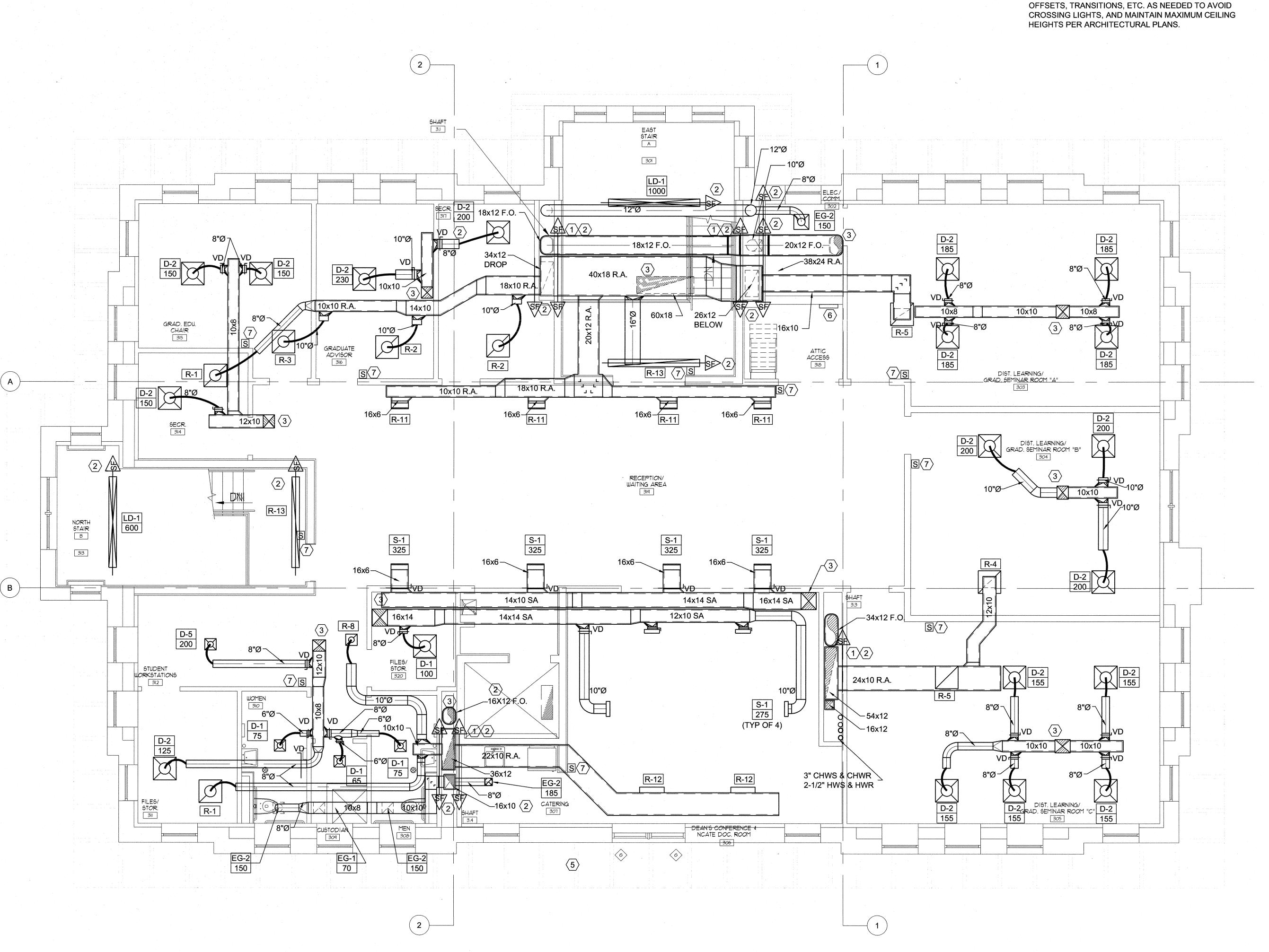
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SECOND FLOOR PLAN



GENERAL NOTES:

1. THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. COORDINATE NEW MECHANICAL AND PLUMBING SYSTEMS WITH ALL EXISTING CONDITIONS AND OTHER DISCIPLINES PRIOR TO INSTALLATION AND FABRICATION.

2. COORDINATE DUCTWORK WITH ARCHITECTURAL CEILING AND ELECTRICAL LIGHTING PLAN. PROVIDE

SHEET NOTES:

- 1 ROUTE DUCT IN SHAFT ABOVE. SEE 2ND FLOOR PLAN FOR CONTINUATION.
- 2 PROVIDE COMBINATION FIRE SMOKE DAMPER AT EACH DUCT PENETRATION OF RATED WALLS AND SHAFTS. COORDINATE WITH DIV 16 FOR POWER TO DAMPERS. COORDINATE ACCESS WITH ARCHITECTURAL PRINTS AND G.C.
- $\langle 3 \rangle$ DUCT RISER TO ATTIC.
- $\overline{\langle 4 \rangle}$ OFFSET SUPPLY DUCT IN SHAFT TO FLOOR ABOVE.
- 5 ROUTE HEATING WATER AND CHILLED WATER PIPING FROM TUNNEL TO AIR HANDLER IN SHAFT. SEE UPPER AND LOWER LEVELS FOR CONTINUATION.
- 6 PROVIDE ATC PANEL AT THIS APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH OWNER, AND ALL OTHER DISCIPLINES.
- 7 PROVIDE WALL MOUNTED SENSOR FOR EACH VAV BOX. COORDINATE EXACT LOCATION WITH ALL OTHER DISCIPLINES.

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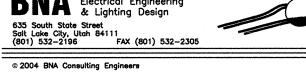
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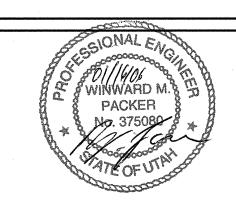




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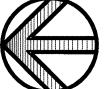
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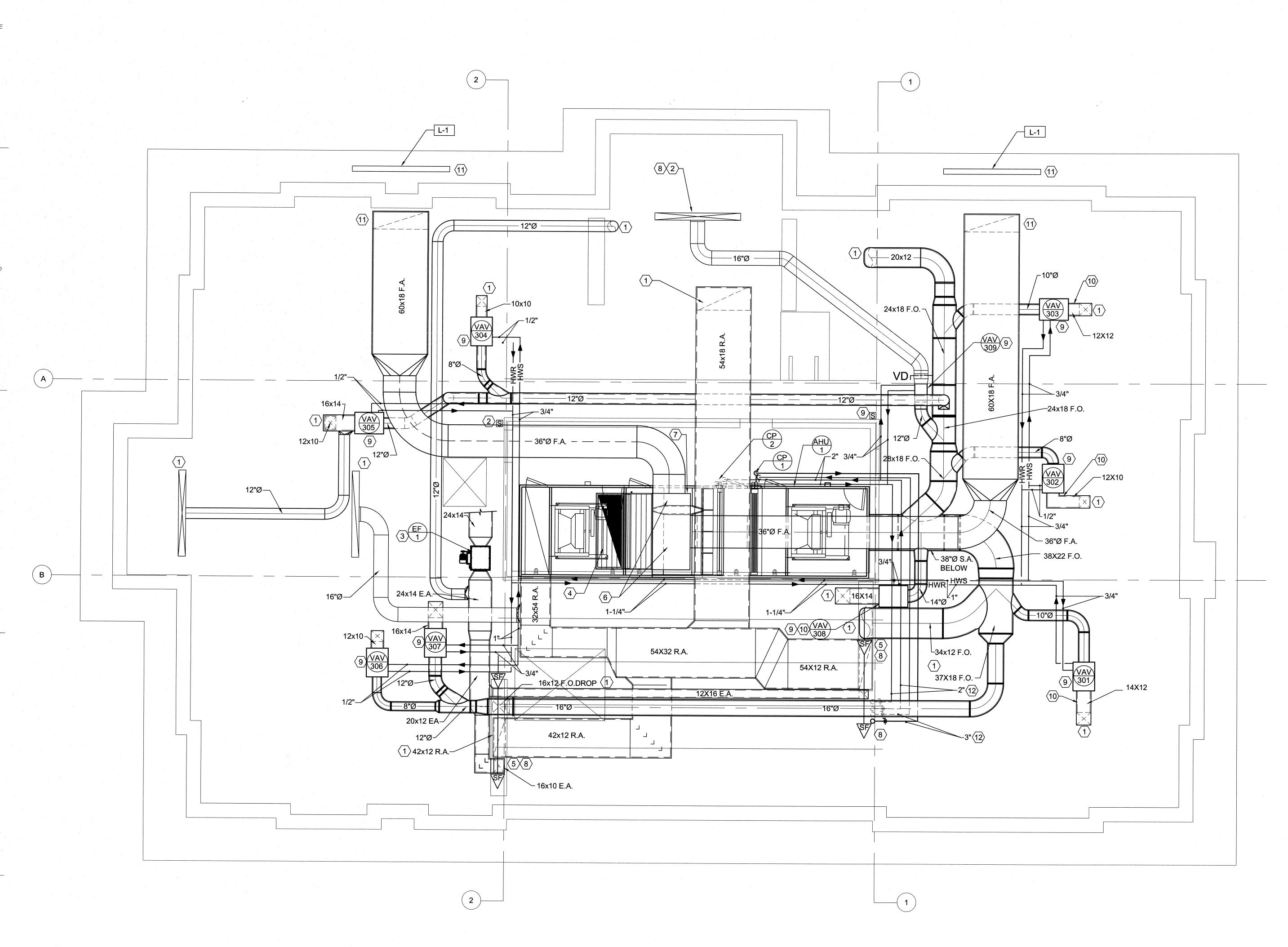
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THIRD FLOOR

PLAN







- (1) SEE 3RD LEVEL PLAN SHEET ME104 FOR CONTINUATION.
- (2) DIFFUSERS AND GRILLES ARE LOCATED ON THIRD LEVEL MECHANICAL PLAN.
- (3) ROUTE 26x14 EXHAUST DUCT TO RELIEF/EXHAUST PLENUM AT CUPOLA. TRANSITION AND ATTACH TO CUPOLA PLENUM BASE. COORDINATE WITH FIELD CONDITIONS. PROVIDE BACK DRAFT DAMPER IN EXHAUST DISCHARGE.
- (4) PROVIDE 72"x72"x30" RELIEF/EXHAUST AIR PLENUM AT CUPOLA BASE. COORDINATE WITH FIELD CONDITIONS, BELLS, SPEAKERS, ETC. PROVIDE ACCESS DOOR FOR FOR SOUND EQUIPMENT AND MAINTENANCE. ROUTE 72x24 RELIEF DUCT TO CUPOLA. TRANSITION AS NECESSARY AND ATTACH TO RELIEF PLENUM AT CUPOLA BASE. COORDINATE WITH ALL OTHER DISCIPLINES.
- $\langle 5 \rangle$ ROUTE DUCT IN MECHANICAL SHAFT. COORDINATE WITH G.C., ARCHITECTURAL PLANS, AND ALL OTHER DISCIPLINES.
- (6) PROVIDE TWO DUCTS TO CONNECT AIR HANDLER SECTIONS. ROUTE DUCTWORK THROUGH TRUSS WEBBING. COORDINATE DUCT SIZES AND LOCATIONS WITH AIR HANDLER MANUFACTURER AND FIELD DIMENSIONS. DUCTS WILL BE APPROXIMATELY 20"x72", AND 68"x72". TRANSITION TO AIR HANDLER OPENINGS.
- $\langle 7 \rangle$ PROVIDE FRESH AIR PLENUM ABOVE FRESH AIR DAMPER. SEE DETAIL D2/ME504. FRESH AIR PLENUM WILL BE APPROXIMATELY 72"x84"x40". FIELD VERIFY.
- 8 PROVIDE FIRE/SMOKE DAMPERS AT ALL PENETRATIONS OF FIRE RATED ASSEMBLIES.
- 9 COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS TO VAV BOXES.
- PROVIDE WITH 36" SOUND ATTENUATOR AT VAV OUTLET.
- (11) PROVIDE FRESH AIR LOUVER AT ARCHITECTURAL DORMER. SEE FRESH AIR DUCT DETAIL B5/ME503, AND ARCHITECTURAL DORMER PLANS.
- (12) CHILLED WATER AND HEATING WATER PIPING FROM TUNNEL. SEE LOWER LEVELS FOR CONTINUATION. PROVIDE ISOLATION VALVES AT TOP OF SHAFT.
- (13) PROVIDE WALL MOUNTED SENSOR. COORDINATE EXACT LOCATION WITH OWNER AND ALL OTHER DISCIPLINES.

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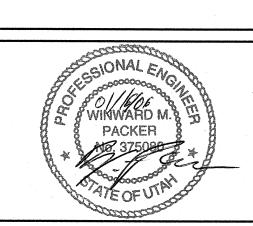


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- 2. COORDINATE DUCTWORK WITH ARCHITECTURAL CEILING AND ELECTRICAL LIGHTING PLAN. PROVIDE OFFSETS, TRANSITIONS, ETC. AS NEEDED TO AVOID CROSSING LIGHTS, AND MAINTAIN MAXIMUM CEILING HEIGHTS PER ARCHITECTURAL PLANS.
- 3. ROUTE DUCT AS HIGH AS POSSIBLE IN ATTIC TO MAINTAIN WALKWAY CLEARANCE. COORDINATE DUCT AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL WALKWAYS, EXISTING STRUCTURE, AND OTHER DISCIPLINES. FIELD VERIFY ALL MEASUREMENTS, LOCATIONS, ROUTING, ETC. PRIOR TO FABRICATION.
- 4. SEE DETAIL E1/AE502 FOR ALL DUCT PENETRATIONS OF AIR HANDLING UNIT SOUND WALL.



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ATTIC FLOOR PLAN

